

SEQUENCE LISTING

<110> Lasek, Amy W.
Jones, David A.

<120> GENES EXPRESSED IN COLON CANCER

<130> PA-0038 US

<140> To Be Assigned

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<221> unsure

<222> 363, 384

<223> a, t, c, g, or other

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 65 70 75
 Val Glu Asp His Leu Ala Trp Ser Lys Asp Ile Asn Ala Tyr Asn
 80 85 90
 Cys Glu Glu Pro Thr Glu Lys Leu Pro Phe Pro Ile Ile Asp Asp
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Trp Lys Asp Gly Asp Ser Val Met Val Leu Pro Thr Ile Pro Glu
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<213> Homo sapiens

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Ser Gln Pro Gln Glu Pro Glu Leu Met Asn Ala Asn Pro Ser Pro
  65          70          75
Pro Pro Ser Pro Ser Gln Gln Ile Asn Leu Gly Pro Ser Ser Asn
  80          85          90
Pro His Ala Lys Pro Ser Asp Phe His Phe Leu Lys Val Ile Gly
  95          100         105
Lys Gly Ser Phe Gly Lys Val Leu Leu Ala Arg His Lys Ala Glu
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Glu Val Phe Tyr Ala Val Lys Val Leu Gln Lys Lys Ala Ile Leu
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Lys Lys Lys Glu Glu Lys His Ile Met Ser Glu Arg Asn Val Leu
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Leu Lys Asn Val Lys His Pro Phe Leu Val Gly Leu His Phe Ser
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Phe Gln Thr Ala Asp Lys Leu Tyr Phe Val Leu Asp Tyr Ile Asn
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Gly Tyr Leu His Ser Leu Asn Ile Val Tyr Arg Asp Leu Lys Pro
  215         220         225
Glu Asn Ile Leu Leu Asp Ser Gln Gly His Ile Val Leu Thr Asp
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Thr Phe Cys Gly Thr Pro Glu Tyr Leu Ala Pro Glu Val Leu His
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Lys Gln Pro Tyr Asp Arg Thr Val Asp Trp Trp Cys Leu Gly Ala
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Val Leu Tyr Glu Met Leu Tyr Gly Leu Pro Pro Phe Tyr Ser Arg
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Asn Thr Ala Glu Met Tyr Asp Asn Ile Leu Asn Lys Pro Leu Gln
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Val Ser Gly Pro	Asn Asp Leu Arg His	Phe Asp Pro Glu Phe Thr			
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<212> DNA

<213> Homo sapiens

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<213> Homo sapiens

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 tgtcatcaca agagaaatct cctggcacca aggatgtggt agtaagtgtg gaatatagta 3060
 aaaagtccga tttagatact tccaaaccac tcagtgaata accaattaca cacaagttg 3120
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 ttgtgccttt aaatgtagct gacaaaagc ttcttgaagc tagtacacag tttcagaaaa 3240
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<213> Homo sapiens

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				20					25					30
Arg	Val	Glu	Leu	Pro	Gly	Thr	Ala	Val	Pro	Ser	Val	Pro	Glu	Asp
				35					40					45
Ala	Ala	Pro	Ala	Ser	Arg	Asp	Gly	Gly	Gly	Val	Arg	Asp	Glu	Gly
				50					55					60
Pro	Ala	Ala	Ala	Gly	Asp	Gly	Leu	Gly	Arg	Pro	Leu	Gly	Pro	Thr
				65					70					75
Pro	Ser	Gln	Ser	Arg	Phe	Gln	Val	Asp	Leu	Val	Ser	Glu	Asn	Ala
				80					85					90
Gly	Arg	Ala	Ala	Ala	Ala	Ala	Ala	Ala	Ala	Ala	Ala	Ala	Ala	Ala
				95					100					105
Ala	Ala	Gly	Ala	Gly	Ala	Gly	Ala	Lys	Gln	Thr	Pro	Ala	Asp	Gly
				110					115					120
Glu	Ala	Ser	Gly	Glu	Ser	Glu	Pro	Ala	Lys	Gly	Ser	Glu	Glu	Ala
				125					130					135
Lys	Gly	Arg	Phe	Arg	Val	Asn	Phe	Val	Asp	Pro	Ala	Ala	Ser	Ser
				140					145					150
Ser	Ala	Glu	Asp	Ser	Leu	Ser	Asp	Ala	Ala	Gly	Val	Gly	Val	Asp
				155					160					165
Gly	Pro	Asn	Val	Ser	Phe	Gln	Asn	Gly	Gly	Asp	Thr	Val	Leu	Ser
				170					175					180
Glu	Gly	Ser	Ser	Leu	His	Ser	Gly	Gly	Gly	Gly	Gly	Ser	Gly	His
				185					190					195
His	Gln	His	Tyr	Tyr	Tyr	Asp	Thr	His	Thr	Asn	Thr	Tyr	Tyr	Leu
				200					205					210
Arg	Thr	Phe	Gly	His	Asn	Thr	Met	Asp	Ala	Val	Pro	Arg	Ile	Asp
				215					220					225
His	Tyr	Arg	His	Thr	Ala	Ala	Gln	Leu	Gly	Glu	Lys	Leu	Leu	Arg
				230					235					240
Pro	Ser	Leu	Ala	Glu	Leu	His	Asp	Glu	Leu	Glu	Lys	Glu	Pro	Phe
				245					250					255
Glu	Asp	Gly	Phe	Ala	Asn	Gly	Glu	Glu	Ser	Thr	Pro	Thr	Arg	Asp
				260					265					270

Ala Val Val Thr	Tyr Thr Ala Glu Ser	Lys Gly Val Val Lys Phe	275	280	285
Gly Trp Ile Lys	Gly Val Leu Val Arg	Cys Met Leu Asn Ile Trp	290	295	300
Gly Val Met Leu	Phe Ile Arg Leu Ser	Trp Ile Val Gly Gln Ala	305	310	315
Gly Ile Gly Leu	Ser Val Leu Val Ile	Met Met Ala Thr Val Val	320	325	330
Thr Thr Ile Thr	Gly Leu Ser Thr Ser	Ala Ile Ala Thr Asn Gly	335	340	345
Phe Val Arg Gly	Gly Gly Ala Tyr Tyr	Leu Ile Ser Arg Ser Leu	350	355	360
Gly Pro Glu Phe	Gly Gly Ala Ile Gly	Leu Ile Phe Ala Phe Ala	365	370	375
Asn Ala Val Ala	Val Ala Met Tyr Val	Val Gly Phe Ala Glu Thr	380	385	390
Val Val Glu Leu	Leu Lys Glu His Ser	Ile Leu Met Ile Asp Glu	395	400	405
Ile Asn Asp Ile	Arg Ile Ile Gly Ala	Ile Thr Val Val Ile Leu	410	415	420
Leu Gly Ile Ser	Val Ala Gly Met Glu	Trp Glu Ala Lys Ala Gln	425	430	435
Ile Val Leu Leu	Val Ile Leu Leu Leu	Ala Ile Gly Asp Phe Val	440	445	450
Ile Gly Thr Phe	Ile Pro Leu Glu Ser	Lys Lys Pro Lys Gly Phe	455	460	465
Phe Gly Tyr Lys	Ser Glu Ile Phe Asn	Glu Asn Phe Gly Pro Asp	470	475	480
Phe Arg Glu Glu	Glu Thr Phe Phe Ser	Val Phe Ala Ile Phe Phe	485	490	495
Pro Ala Ala Thr	Gly Ile Leu Ala Gly	Ala Asn Ile Ser Gly Asp	500	505	510
Leu Ala Asp Pro	Gln Ser Ala Ile Pro	Lys Gly Thr Leu Leu Ala	515	520	525
Ile Leu Ile Thr	Thr Leu Val Tyr Val	Gly Ile Ala Val Ser Val	530	535	540
Gly Ser Cys Val	Val Arg Asp Ala Thr	Gly Asn Val Asn Asp Thr	545	550	555
Ile Val Thr Glu	Leu Thr Asn Cys Thr	Ser Ala Ala Cys Lys Leu	560	565	570
Asn Phe Asp Phe	Ser Ser Cys Glu Ser	Ser Pro Cys Ser Tyr Gly	575	580	585
Leu Met Asn Asn	Phe Gln Val Met Ser	Met Val Ser Gly Phe Thr	590	595	600
Pro Leu Ile Ser	Ala Gly Ile Phe Ser	Ala Thr Leu Ser Ser Ala	605	610	615
Leu Ala Ser Leu	Val Ser Ala Pro Lys	Ile Phe Gln Ala Leu Cys	620	625	630
Lys Asp Asn Ile	Tyr Pro Ala Phe Gln	Met Phe Ala Lys Gly Tyr	635	640	645
Gly Lys Asn Asn	Glu Pro Leu Arg Gly	Tyr Ile Leu Thr Phe Leu	650	655	660
Ile Ala Leu Gly	Phe Ile Leu Ile Ala	Glu Leu Asn Val Ile Ala	665	670	675
Pro Ile Ile Ser	Asn Phe Phe Leu Ala	Ser Tyr Ala Leu Ile Asn	680	685	690
Phe Ser Val Phe	His Ala Ser Leu Ala	Lys Ser Pro Gly Trp Arg	695	700	705
Pro Gly Phe Lys	Tyr Tyr Asn Met Trp	Ile Ser Leu Leu Gly Ala	710	715	720
Ile Leu Cys Cys	Ile Val Met Phe Val	Ile Asn Trp Trp Ala Ala	725	730	735
Leu Leu Thr Tyr	Val Ile Val Leu Gly	Leu Tyr Ile Tyr Val Thr	740	745	750
Tyr Lys Lys Pro	Asp Val Asn Trp Gly	Ser Ser Thr Gln Ala Leu	755	760	765

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Thr	Tyr	Leu	Asn	Ala	Leu	Gln	His	Ser	Ile	Arg	Leu	Ser	Gly	Val
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Glu	Asp	His	Val	Lys	Asn	Phe	Arg	Pro	Gln	Cys	Leu	Val	Met	Thr
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Gly	Ala	Pro	Asn	Ser	Arg	Pro	Ala	Leu	Leu	His	Leu	Val	His	Asp
				800					805					810
Phe	Thr	Lys	Asn	Val	Gly	Leu	Met	Ile	Cys	Gly	His	Val	His	Met
				815					820					825
Gly	Pro	Arg	Arg	Gln	Ala	Met	Lys	Glu	Met	Ser	Ile	Asp	Gln	Ala
				830					835					840
Lys	Tyr	Gln	Arg	Trp	Leu	Ile	Lys	Asn	Lys	Met	Lys	Ala	Phe	Tyr
				845					850					855
Ala	Pro	Val	His	Ala	Asp	Asp	Leu	Arg	Glu	Gly	Ala	Gln	Tyr	Leu
				860					865					870
Met	Gln	Ala	Ala	Gly	Leu	Gly	Arg	Met	Lys	Pro	Asn	Thr	Leu	Val
				875					880					885
Leu	Gly	Phe	Lys	Lys	Asp	Trp	Leu	Gln	Ala	Asp	Met	Arg	Asp	Val
				890					895					900
Asp	Met	Tyr	Ile	Asn	Leu	Phe	His	Asp	Ala	Phe	Asp	Ile	Gln	Tyr
				905					910					915
Gly	Val	Val	Val	Ile	Arg	Leu	Lys	Glu	Gly	Leu	Asp	Ile	Ser	His
				920					925					930
Leu	Gln	Gly	Gln	Glu	Glu	Leu	Leu	Ser	Ser	Gln	Glu	Lys	Ser	Pro
				935					940					945
Gly	Thr	Lys	Asp	Val	Val	Val	Ser	Val	Glu	Tyr	Ser	Lys	Lys	Ser
				950					955					960
Asp	Leu	Asp	Thr	Ser	Lys	Pro	Leu	Ser	Glu	Lys	Pro	Ile	Thr	His
				965					970					975
Lys	Val	Glu	Glu	Glu	Asp	Gly	Lys	Thr	Ala	Thr	Gln	Pro	Leu	Leu
				980					985					990
Lys	Lys	Glu	Ser	Lys	Gly	Pro	Ile	Val	Pro	Leu	Asn	Val	Ala	Asp
				995					1000					1005
Gln	Lys	Leu	Leu	Glu	Ala	Ser	Thr	Gln	Phe	Gln	Lys	Lys	Gln	Gly
				1010					1015					1020
Lys	Asn	Thr	Ile	Asp	Val	Trp	Trp	Leu	Phe	Asp	Asp	Gly	Gly	Leu
				1025					1030					1035
Thr	Leu	Leu	Ile	Pro	Tyr	Leu	Leu	Thr	Thr	Lys	Lys	Lys	Trp	Lys
				1040					1045					1050
Asp	Cys	Lys	Ile	Arg	Val	Phe	Ile	Gly	Gly	Lys	Ile	Asn	Arg	Ile
				1055					1060					1065
Asp	His	Asp	Arg	Arg	Ala	Met	Ala	Thr	Leu	Leu	Ser	Lys	Phe	Arg
				1070					1075					1080
Ile	Asp	Phe	Ser	Asp	Ile	Met	Val	Leu	Gly	Asp	Ile	Asn	Thr	Lys
				1085					1090					1095
Pro	Lys	Lys	Glu	Asn	Ile	Ile	Ala	Phe	Glu	Glu	Ile	Ile	Glu	Pro
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Tyr	Arg	Leu	His	Glu	Asp	Asp	Lys	Glu	Gln	Asp	Ile	Ala	Asp	Lys
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Leu	Tyr	Lys	Thr	Lys	Thr	Tyr	Arg	Gln	Ile	Arg	Leu	Asn	Glu	Leu
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Leu	Lys	Glu	His	Ser	Ser	Thr	Ala	Asn	Ile	Ile	Val	Met	Ser	Leu
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Pro	Val	Ala	Arg	Lys	Gly	Ala	Val	Ser	Ser	Ala	Leu	Tyr	Met	Ala
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Trp	Leu	Glu	Ala	Leu	Ser	Lys	Asp	Leu	Pro	Pro	Ile	Leu	Leu	Val
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Arg	Gly	Asn	His	Gln	Ser	Val	Leu	Thr	Phe	Tyr	Ser			
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<212> DNA

<213> Homo sapiens

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 <222> 388
 <223> a, t, c, g, or other

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 cagaagttga gaccaccagc agaggagcta ggccagtcca tctgcatttg tcaccaaga 180
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 aaaaaaaa 1868

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 <213> Homo sapiens

<220>
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Ile	Ala	Ala	Arg	Asn	Phe	His	Ala	Ser	Asn	Thr	His	Leu	Gln	Lys	35	40	45	
Thr	Gly	Thr	Ala	Glu	Met	Ser	Ser	Ile	Leu	Glu	Glu	Arg	Ile	Leu	50	55	60	
Gly	Ala	Asp	Thr	Ser	Val	Asp	Leu	Glu	Glu	Thr	Gly	Arg	Val	Leu	65	70	75	
Ser	Ile	Gly	Asp	Gly	Ile	Ala	Arg	Val	His	Gly	Leu	Arg	Asn	Val	80	85	90	
Gln	Ala	Glu	Glu	Met	Val	Glu	Phe	Ser	Ser	Gly	Leu	Lys	Gly	Met	95	100	105	
Ser	Leu	Asn	Leu	Glu	Pro	Asp	Asn	Val	Gly	Val	Val	Val	Phe	Gly	110	115	120	
Asn	Asp	Lys	Leu	Ile	Lys	Glu	Gly	Asp	Ile	Val	Lys	Arg	Thr	Gly	125	130	135	
Ala	Ile	Val	Asp	Val	Pro	Val	Gly	Glu	Glu	Leu	Leu	Gly	Arg	Val	140	145	150	
Val	Asp	Ala	Leu	Gly	Asn	Ala	Ile	Asp	Gly	Lys	Gly	Pro	Ile	Gly	155	160	165	
Ser	Lys	Thr	Arg	Arg	Arg	Val	Gly	Leu	Lys	Ala	Pro	Gly	Ile	Ile	170	175	180	
Pro	Arg	Ile	Ser	Val	Arg	Glu	Pro	Met	Gln	Thr	Gly	Ile	Lys	Ala	185	190	195	
Val	Asp	Ser	Leu	Val	Pro	Ile	Gly	Arg	Gly	Gln	Arg	Glu	Leu	Ile	200	205	210	
Ile	Gly	Asp	Arg	Gln	Thr	Gly	Lys	Thr	Ser	Ile	Ala	Ile	Asp	Thr	215	220	225	
Ile	Ile	Asn	Gln	Lys	Arg	Phe	Asn	Asp	Gly	Ser	Asp	Glu	Lys	Lys	230	235	240	
Lys	Leu	Tyr	Cys	Ile	Tyr	Val	Ala	Ile	Gly	Gln	Lys	Arg	Ser	Thr	245	250	255	
Val	Ala	Gln	Leu	Val	Lys	Arg	Leu	Thr	Asp	Ala	Asp	Ala	Met	Lys	260	265	270	
Tyr	Thr	Ile	Val	Val	Ser	Ala	Thr	Ala	Ser	Asp	Ala	Ala	Pro	Leu	275	280	285	
Gln	Tyr	Leu	Ala	Pro	Tyr	Ser	Gly	Cys	Ser	Met	Gly	Glu	Tyr	Phe	290	295	300	
Arg	Asp	Asn	Gly	Lys	His	Ala	Leu	Ile	Ile	Tyr	Asp	Asp	Leu	Ser	305	310	315	
Lys	Gln	Ala	Val	Ala	Tyr	Arg	Gln	Met	Ser	Leu	Leu	Leu	Arg	Arg	320	325	330	
Pro	Pro	Gly	Arg	Glu	Ala	Tyr	Pro	Gly	Asp	Val	Phe	Tyr	Leu	His	335	340	345	
Ser	Arg	Leu	Leu	Glu	Arg	Ala	Ala	Lys	Met	Asn	Asp	Ala	Phe	Gly	350	355	360	
Gly	Gly	Ser	Leu	Thr	Ala	Leu	Pro	Val	Ile	Glu	Thr	Gln	Ala	Gly	365	370	375	
Asp	Val	Ser	Ala	Tyr	Ile	Pro	Thr	Asn	Val	Ile	Ser	Ile	Thr	Asp	380	385	390	
Gly	Gln	Ile	Phe	Leu	Glu	Thr	Glu	Leu	Phe	Tyr	Lys	Gly	Ile	Arg	395	400	405	
Pro	Ala	Ile	Asn	Val	Gly	Leu	Ser	Val	Ser	Arg	Val	Gly	Ser	Ala	410	415	420	

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Ala Gln Thr Arg Ala Met Lys Gln Val Ala Gly Thr Met Lys Leu
425 430 435
Glu Leu Ala Gln Tyr Arg Glu Val Ala Ala Phe Ala Gln Phe Gly
440 445 450
Ser Asp Leu Asp Ala Ala Thr Gln Gln Leu Leu Ser Arg Gly Val
455 460 465
Arg Leu Thr Glu Leu Leu Lys Gln Gly Gln Tyr Ser Pro Met Ala
470 475 480
Ile Glu Glu Gln Val Ala Val Ile Tyr Ala Gly Val Arg Gly Tyr
485 490 495
Leu Asp Lys Leu Glu Pro Ser Lys Ile Thr Lys Phe Glu Asn Ala
500 505 510
Phe Leu Ser His Val Val Ser Gln His Gln Ala Leu Leu Gly Thr
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ggaaaacttt gaagccttca tgaaggcaat cggctctgccg gaagagctca tccagaaggg 180
gaaggatata aaggggggtgt cggaaatcgt gcagaatggg aagcacttca agttcaccat 240
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gacaatgaca ggggagaaag tcaagacagt gggtcagttg gaaggtgaca ataaactggg 360
gacagctttc aaaaacatca agtctgtgac cgaactcaac ggcgacataa tcaccaatac 420
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20 25 30
Lys Gly Lys Asp Ile Lys Gly Val Ser Glu Ile Val Gln Asn Gly
35 40 45
Lys His Phe Lys Phe Thr Ile Thr Ala Gly Ser Lys Val Ile Gln
50 55 60
Asn Glu Phe Thr Val Gly Glu Glu Cys Glu Leu Glu Thr Met Thr
65 70 75
Gly Glu Lys Val Lys Thr Val Val Gln Leu Glu Gly Asp Asn Lys
80 85 90
Leu Val Thr Ala Phe Lys Asn Ile Lys Ser Val Thr Glu Leu Asn
95 100 105
Gly Asp Ile Ile Thr Asn Thr Met Thr Leu Gly Asp Ile Val Phe
110 115 120
Lys Arg Ile Ser Lys Arg Ile

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 <212> DNA
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 <213> Homo sapiens

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Pro Asn Phe Ile Leu Gln Val Tyr Ser Ser Gln Arg Lys Ser Trp	50	55	60
His Pro Val Cys Gln Asp Asp Trp Asn Glu Asn Tyr Gly Arg Ala	65	70	75
Ala Cys Arg Asp Met Gly Tyr Lys Asn Asn Phe Tyr Ser Ser Gln	80	85	90
Gly Ile Val Asp Asp Ser Gly Ser Thr Ser Phe Met Lys Leu Asn	95	100	105
Thr Ser Ala Gly Asn Val Asp Ile Tyr Lys Lys Leu Tyr His Ser	110	115	120
Asp Ala Cys Ser Ser Lys Ala Val Val Ser Leu Arg Cys Ile Ala	125	130	135
Cys Gly Val Asn Leu Asn Ser Ser Arg Gln Ser Arg Ile Val Gly	140	145	150
Gly Glu Ser Ala Leu Pro Gly Ala Trp Pro Trp Gln Val Ser Leu	155	160	165
His Val Gln Asn Val His Val Cys Gly Gly Ser Ile Ile Thr Pro	170	175	180
Glu Trp Thr Val Thr Ala Ala His Cys Val Glu Lys Pro Leu Asn	185	190	195
Asn Pro Trp His Trp Thr Ala Phe Ala Gly Ile Leu Arg Gln Ser	200	205	210
Phe Met Phe Tyr Gly Ala Gly Tyr Gln Val Glu Lys Val Ile Ser	215	220	225
His Pro Asn Tyr Asp Ser Lys Thr Lys Asn Asn Asp Ile Ala Leu	230	235	240
Met Lys Leu Gln Lys Pro Leu Thr Phe Asn Asp Leu Val Lys Pro	245	250	255
Val Cys Leu Pro Asn Pro Gly Met Met Leu Gln Pro Glu Gln Leu	260	265	270
Cys Trp Ile Ser Gly Trp Gly Ala Thr Glu Glu Lys Gly Lys Thr	275	280	285
Ser Glu Val Leu Asn Ala Ala Lys Val Leu Leu Ile Glu Thr Gln	290	295	300
Arg Cys Asn Ser Arg Tyr Val Tyr Asp Asn Leu Ile Thr Pro Ala	305	310	315
Met Ile Cys Ala Gly Phe Leu Gln Gly Asn Val Asp Ser Cys Gln	320	325	330
Gly Asp Ser Gly Gly Pro Leu Val Thr Ser Lys Asn Asn Ile Trp	335	340	345
Trp Leu Ile Gly Asp Thr Ser Trp Gly Ser Gly Cys Ala Lys Ala	350	355	360
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<211> 1001

<212> DNA

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<223> Incyte ID No: 3220207CB1

<220>

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<222> 610-648

<223> a, t, c, g, or other

<400> 24

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<400> 25

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35 40 45
Gly Lys Arg Phe Ser His Ser Gly Asn Gln Leu Asp Gly Pro Ile
50 55 60
Thr Ala Leu Arg Val Arg Val Asn Thr Tyr Tyr Ile Val Gly Leu
65 70 75
Gln Val Arg Tyr Gly Lys Val Trp Ser Asp Tyr Val Gly Gly Arg
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Asn Gly Asp Leu Glu Glu Ile Phe Leu His Pro Gly Glu Ser Val
95 100 105
Ile Gln Val Ser Gly Lys Tyr Lys Trp Tyr Leu Lys Lys Leu Val
110 115 120
Phe Val Thr Asp Lys Gly Arg Tyr Leu Ser Phe Gly Lys Asp Ser
125 130 135
Gly Thr Ser Phe Asn Ala Val Pro Leu His Pro Asn Thr Val Leu
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<400> 26

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<211> 880

<212> DNA

<213> Homo sapiens

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<223> Incyte ID No: 998971.1

<400> 27

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<211> 4101

<212> DNA

<213> Homo sapiens

<220>

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<223> Incyte ID No: 333076.1

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<212> DNA

<213> Homo sapiens

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<221> misc_feature

<223> Incyte ID No: 989613CB1

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<212> PRT
<213> Homo sapiens

<220>
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<223> Incyte ID No: 989613CD1

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Asn Val His Asp Ala Asp Phe Gly Glu Gln Lys Asp Ile Ser Glu
35 40 45
Ile Asn Leu Ala Ala Gly Leu Asp Leu Phe Gln Gly Asp Ile Leu
50 55 60
Leu Gln Lys Ser Arg Asn Gly Leu Arg Asp Pro Asn Thr Arg Trp
65 70 75
Thr Phe Pro Ile Pro Tyr Ile Leu Ala Asp Asn Leu Gly Leu Asn
80 85 90
Ala Lys Gly Ala Ile Leu Tyr Ala Phe Glu Met Phe Arg Leu Lys
95 100 105
Ser Cys Val Asp Phe Lys Pro Tyr Glu Gly Glu Ser Ser Tyr Ile
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Ile Phe Gln Gln Phe Asp Gly Cys Trp Ser Glu Val Gly Asp Gln
125 130 135
His Val Gly Gln Asn Ile Ser Ile Gly Gln Gly Cys Ala Tyr Lys
140 145 150
Ala Ile Ile Glu His Glu Ile Leu His Ala Leu Gly Phe Tyr His
155 160 165
Glu Gln Ser Arg Thr Asp Arg Asp Asp Tyr Val Asn Ile Trp Trp
170 175 180
Asp Gln Ile Leu Ser Gly Tyr Gln His Asn Phe Asp Thr Tyr Asp
185 190 195
Asp Ser Leu Ile Thr Asp Leu Asn Thr Pro Tyr Asp Tyr Glu Ser
200 205 210
Leu Met His Tyr Gln Pro Phe Ser Phe Asn Lys Asn Ala Ser Val
215 220 225
Pro Thr Ile Thr Ala Lys Ile Pro Glu Phe Asn Ser Ile Ile Gly
230 235 240
Gln Arg Leu Asp Phe Ser Ala Ile Asp Leu Glu Arg Leu Asn Arg
245 250 255
Met Tyr Asn Cys Thr Thr Thr His Thr Leu Leu Asp His Cys Thr
260 265 270
Phe Glu Lys Ala Asn Ile Cys Gly Met Ile Gln Gly Thr Arg Asp
275 280 285
Asp Thr Asp Trp Ala His Gln Asp Ser Ala Gln Ala Gly Glu Val
290 295 300
Asp His Thr Leu Leu Gly Gln Cys Thr Gly Ala Gly Tyr Phe Met
305 310 315
Gln Phe Ser Thr Ser Ser Gly Ser Ala Glu Glu Ala Ala Leu Leu
320 325 330
Glu Ser Arg Ile Leu Tyr Pro Lys Arg Lys Gln Gln Cys Leu Gln
335 340 345
Phe Phe Tyr Lys Met Thr Gly Ser Pro Ser Asp Arg Leu Val Val
350 355 360
Trp Val Arg Arg Asp Asp Ser Thr Gly Asn Val Arg Lys Leu Val
365 370 375
Lys Val Gln Thr Phe Gln Gly Asp Asp Asp His Asn Trp Lys Ile
380 385 390
Ala His Val Val Leu Lys Glu Glu Gln Lys Phe Arg Tyr Leu Phe

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Gln Gly Thr Lys	Gly Asp Pro Gln Asn	Ser Thr Gly Gly Ile Tyr			
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Leu Asp Asp Ile	Thr Leu Thr Glu Thr	Pro Cys Pro Thr Gly Val			
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Trp Thr Val Arg	Asn Phe Ser Gln Val	Leu Glu Asn Thr Ser Lys			
	440		445		450
Gly Asp Lys Leu	Gln Ser Pro Arg Phe	Tyr Asn Ser Glu Gly Tyr			
	455		460		465
Gly Phe Gly Leu	Thr Leu Tyr Pro Asn	Ser Arg Glu Ser Ser Gly			
	470		475		480
Tyr Leu Arg Leu	Ala Phe His Val Cys	Ser Gly Glu Asn Asp Ala			
	485		490		495
Ile Leu Glu Trp	Pro Val Glu Asn Arg	Gln Val Ile Ile Thr Ile			
	500		505		510
Leu Asp Gln Glu	Pro Asp Val Gln Asn	Arg Met Ser Ser Ser Met			
	515		520		525
Val Phe Thr Thr	Ser Lys Ser His Thr	Ser Pro Ala Ile Asn Asp			
	530		535		540
Thr Val Ile Trp	Asp Arg Pro Ser Arg	Val Gly Thr Tyr His Thr			
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Asp Cys Asn Cys	Phe Arg Ser Ile Asp	Leu Gly Trp Ser Gly Phe			
	560		565		570
Ile Ser His Gln	Met Leu Lys Arg Arg	Ser Phe Leu Lys Asn Asp			
	575		580		585
Asp Leu Ile Ile	Phe Val Asp Phe Glu	Asp Ile Thr His Leu Ser			
	590		595		600
Gln Thr Glu Val	Pro Thr Lys Gly Lys	Arg Leu Ser Pro Gln Gly			
	605		610		615
Leu Ile Leu Gln	Gly Gln Glu Gln Gln	Val Ser Glu Glu Gly Ser			
	620		625		630
Gly Lys Ala Met	Leu Glu Glu Ala Leu	Pro Val Ser Leu Ser Gln			
	635		640		645
Gly Gln Pro Ser	Arg Gln Lys Arg Ser	Val Glu Asn Thr Gly Pro			
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Leu Glu Asp His	Asn Trp Pro Gln Tyr	Phe Arg Asp Pro Cys Asp			
	665		670		675
Pro Asn Pro Cys	Gln Asn Asp Gly Ile	Cys Val Asn Val Lys Gly			
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Met Ala Ser Cys	Arg Cys Ile Ser Gly	His Ala Phe Phe Tyr Thr			
	695		700		705
Gly Glu Arg Cys	Gln Ala Val Gln Val	His Gly Ser Val Leu Gly			
	710		715		720
Met Val Ile Gly	Gly Thr Ala Gly Val	Ile Phe Leu Thr Phe Ser			
	725		730		735
Ile Ile Ala Ile	Leu Ser Gln Arg Pro	Arg Lys			
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 <212> DNA
 <213> Homo sapiens

<220>
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 <223> Incyte ID No: 2921920CB1

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 caggtgatgg cctgtatttt ctccgcacca agaatgggtgt tgtctaccag accttctgtg 300
 acatgacttc tgggggtggc ggctggaccc tgggtggccag cgtgcacgag aatgacatgc 360
 atgggaagtg cacgggtggg gatcgctggt ccagtcagca gggcaacaaa gcagactacc 420
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ccaacactgg cttcctccag agactgggac ataattctgtt tggcatctac cagaaatacc 660
cagtgaataa cagatcaggg aaatgttgga atgacaatgg ccagccata cctgtggtct 720
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tctatagatg agacagagct ctgcggtgtc agggcgagaa cccatcttcc aaccccggt 1080
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tc 1142

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<210> 32

<211> 325

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2921920CDI

<400> 32

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          20          25          30
Ser Leu Glu Met Leu Ser Arg Glu Phe Glu Thr Cys Ala Phe Ser
          35          40          45
Phe Ser Ser Leu Pro Arg Ser Cys Lys Glu Ile Lys Glu Arg Cys
          50          55          60
His Ser Ala Gly Asp Gly Leu Tyr Phe Leu Arg Thr Lys Asn Gly
          65          70          75
Val Val Tyr Gln Thr Phe Cys Asp Met Thr Ser Gly Gly Gly Gly
          80          85          90
Trp Thr Leu Val Ala Ser Val His Glu Asn Asp Met His Gly Lys
          95          100          105
Cys Thr Val Gly Asp Arg Trp Ser Ser Gln Gln Gly Asn Lys Ala
          110          115          120
Asp Tyr Pro Glu Gly Asp Gly Asn Trp Ala Asn Tyr Asn Thr Phe
          125          130          135
Gly Ser Ala Glu Ala Ala Thr Ser Asp Asp Tyr Lys Asn Pro Gly
          140          145          150
Tyr Tyr Asp Ile Gln Ala Lys Asp Leu Gly Ile Trp His Val Pro
          155          160          165
Asn Lys Ser Pro Met Gln His Trp Arg Asn Ser Ala Leu Leu Arg
          170          175          180
Tyr Arg Thr Asn Thr Gly Phe Leu Gln Arg Leu Gly His Asn Leu
          185          190          195
Phe Gly Ile Tyr Gln Lys Tyr Pro Val Lys Tyr Arg Ser Gly Lys
          200          205          210
Cys Trp Asn Asp Asn Gly Pro Ala Ile Pro Val Val Tyr Asp Phe
          215          220          225
Gly Asp Ala Lys Lys Thr Ala Ser Tyr Tyr Ser Pro Tyr Gly Gln
          230          235          240
Arg Glu Phe Val Ala Gly Phe Val Gln Phe Arg Val Phe Asn Asn
          245          250          255
Glu Arg Ala Ala Asn Ala Leu Cys Ala Gly Ile Lys Val Thr Gly
          260          265          270
Cys Asn Thr Glu His His Cys Ile Gly Gly Gly Gly Phe Phe Pro
          275          280          285
Gln Gly Lys Pro Arg Gln Cys Gly Asp Phe Ser Ala Phe Asp Trp
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<210> 33
 <211> 2966
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 <213> Homo sapiens

<220>
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 <223> Incyte ID No: 997080.1

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 <211> 2574
 <212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 5517972CB1

<400> 34

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<210> 35

<211> 655

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 5517972CD1

<400> 35

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Phe Thr Glu Gly Ala Val Leu Ser Phe His Asn Ile Cys Tyr Arg

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	65		70		75
Asn Ala Ile Leu	Gly Pro Thr Gly Gly	Gly Lys Ser Ser	Leu Leu		
	80		85		90
Asp Val Leu Ala	Ala Arg Lys Asp Pro	Ser Gly Leu Ser	Gly Asp		
	95		100		105
Val Leu Ile Asn	Gly Ala Pro Arg Pro	Ala Asn Phe Lys	Cys Asn		
	110		115		120
Ser Gly Tyr Val	Val Gln Asp Asp Val	Val Met Gly Thr	Leu Thr		
	125		130		135
Val Arg Glu Asn	Leu Gln Phe Ser Ala	Ala Leu Arg Leu	Ala Thr		
	140		145		150
Thr Met Thr Asn	His Glu Lys Asn Glu	Arg Ile Asn Arg	Val Ile		
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Gln Glu Leu Gly	Leu Asp Lys Val Ala	Asp Ser Lys Val	Gly Thr		
	170		175		180
Gln Phe Ile Arg	Gly Val Ser Gly Gly	Glu Arg Lys Arg	Thr Ser		
	185		190		195
Ile Gly Met Glu	Leu Ile Thr Asp Pro	Ser Ile Leu Phe	Leu Asp		
	200		205		210
Glu Pro Thr Thr	Gly Leu Asp Ser Ser	Thr Ala Asn Ala	Val Leu		
	215		220		225
Leu Leu Leu Lys	Arg Met Ser Lys Gln	Gly Arg Thr Ile	Ile Phe		
	230		235		240
Ser Ile His Gln	Pro Arg Tyr Ser Ile	Phe Lys Leu Phe	Asp Ser		
	245		250		255
Leu Thr Leu Leu	Ala Ser Gly Arg Leu	Met Phe His Gly	Pro Ala		
	260		265		270
Gln Glu Ala Leu	Gly Tyr Phe Glu Ser	Ala Gly Tyr His	Cys Glu		
	275		280		285
Ala Tyr Asn Asn	Pro Ala Asp Phe Phe	Leu Asp Ile Ile	Asn Gly		
	290		295		300
Asp Ser Thr Ala	Val Ala Leu Asn Arg	Glu Glu Asp Phe	Lys Ala		
	305		310		315
Thr Glu Ile Ile	Glu Pro Ser Lys Gln	Asp Lys Pro Leu	Ile Glu		
	320		325		330
Lys Leu Ala Glu	Ile Tyr Val Asn Ser	Ser Phe Tyr Lys	Glu Thr		
	335		340		345
Lys Ala Glu Leu	His Gln Leu Ser Gly	Gly Glu Lys Lys	Lys Lys		
	350		355		360
Ile Thr Val Phe	Lys Glu Ile Ser Tyr	Thr Thr Ser Phe	Cys His		
	365		370		375
Gln Leu Arg Trp	Val Ser Lys Arg Ser	Phe Lys Asn Leu	Leu Gly		
	380		385		390
Asn Pro Gln Ala	Ser Ile Ala Gln Ile	Ile Val Thr Val	Val Leu		
	395		400		405
Gly Leu Val Ile	Gly Ala Ile Tyr Phe	Gly Leu Lys Asn	Asp Ser		
	410		415		420
Thr Gly Ile Gln	Asn Arg Ala Gly Val	Leu Phe Phe Leu	Thr Thr		
	425		430		435
Asn Gln Cys Phe	Ser Ser Val Ser Ala	Val Glu Leu Phe	Val Val		
	440		445		450
Glu Lys Lys Leu	Phe Ile His Glu Tyr	Ile Ser Gly Tyr	Tyr Arg		
	455		460		465
Val Ser Ser Tyr	Phe Leu Gly Lys Leu	Leu Ser Asp Leu	Leu Pro		
	470		475		480
Met Arg Met Leu	Pro Ser Ile Ile Phe	Thr Cys Ile Val	Tyr Phe		
	485		490		495
Met Leu Gly Leu	Lys Pro Lys Ala Asp	Ala Phe Phe Val	Met Met		
	500		505		510
Phe Thr Leu Met	Met Val Ala Tyr Ser	Ala Ser Ser Met	Ala Leu		
	515		520		525
Ala Ile Ala Ala	Gly Gln Ser Val Val	Ser Val Ala Thr	Leu Leu		

Met Thr Ile Cys	530	Phe Val Phe Met Met	535	Ile Phe Ser Gly Leu	540
Val Asn Leu Thr	545	Thr Ile Ala Ser Trp	550	Leu Ser Trp Leu Gln	555
Phe Ser Ile Pro	560	Arg Tyr Gly Phe Thr	565	Ala Leu Gln His Asn	570
Phe Leu Gly Gln	575	Asn Phe Cys Pro Gly	580	Leu Asn Ala Thr Gly	585
Asn Pro Cys Asn	590	Tyr Ala Thr Cys Thr	595	Gly Glu Glu Tyr Leu	600
Lys Gln Gly Ile	605	Asp Leu Ser Pro Trp	610	Gly Leu Trp Lys Asn	615
Val Ala Leu Ala	620	Cys Met Ile Val Ile	625	Phe Leu Thr Ile Ala	630
Leu Lys Leu Leu	635	Phe Leu Lys Lys Tyr	640	Ser	645
	650		655		

<210> 36
 <211> 3405
 <212> DNA
 <213> Homo sapiens

<220>
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 ctgcagggag cagagctggc ccagcgatcc tgggggaggc cgcgccagag acgcagccgc 180
 gtccccacca cccacacca ccgcgcctcg cgttcgcttc ttctccggga gccagtcccg 240
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 cctcgctctc ctaccgcagg atgttcggcg gcccgggcac cgcgagccgg ccgagctcca 360
 gccggagcta cgtgactacg tccaccgcga cctacagcct gggcagcgcg ctgcgcccc 420
 gcaccagccg cagcctctac gctcgctccc cgggcgcggt gtatgccacg cgctcctctg 480
 ccgtgcgcct gcggagcagc gtgcccgggg tgcggctcct gcaggactcg gtggacttct 540
 cgctggccga cgccatcaac accgagttca agaaccaccg caccaacgag aaggtggagc 600
 tgcaggagct gaatgaccgc ttgcgcaact acatcgacaa ggtgcgcttc ctggagcagc 660
 agaataagat cctgctggcc gagctcgagc agctcaaggg ccaaggcaag tcgcgcctgg 720
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 attcttgctg gtaatatatt gctgcactga gtgtgtgcaa tttttattca aggtcatcgt 2280

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<210> 37
 <211> 273
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 236655.3

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tggtcacatt gctttaaccc agcagggcct cggccagggg ctttccactt gaggatagca 180
gcttcactag gctggcggc cagctccaca tctgactggg ttcttacttc tcagccagta 240
cctacccta ttgcggtcct ccagctcatc ttt 273

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<210> 38
 <211> 2333
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 345275.4

<220>
 <221> unsure
 <222> 915-1222, 2199
 <223> a, t, c, g, or other

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gtagccgcca cccacatagt atacccttg ctgcaaggat gggatgatga tgtctcgtc 240
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acaactcaca tcaaagccct cactccacta atggagaatc ctagccccac taatgccaag 840
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agtctgatct ttttntnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 960
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cttgaagagc ttctatgtgt ctctccttt gttgctggc agctgtctag gatgatcact 2280
gattactatt tactaagtag ccacatgcaa ataaaagttg tttggtaaaa tga 2333

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<210> 39

<211> 1448

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 124600CB1

<220>

<221> unsure

<222> 1164

<223> a, t, c, g, or other

<400> 39

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gcgctggtgg attggaatct tgaagcaggt gtacagtgtg aagctgccct ggatgagcag 180
tttgaacctc agaagactct gttcatccag tgcgatgtgg ctgaccagca acaactgaga 240
gacactttta gaaaagttgt agaccacttt ggaagactgg acattttggt caataatgct 300
ggagtgaata atgagaaaaa ctgggaaaaa actctgcaaa ttaatttggt ttctgttatc 360
agtggaaact atcttggttt ggattacatg agtaagcaaa atggagggtga aggcggcatc 420
attatcaata tgtcatcttt agcaggactc atgccggtg cacagcagcc ggtttatgt 480
gcttcaaagc atggcatagt tggattcaca cgctcagcag cgttggctgc taatcttatg 540
aacagtgggt tgagactgaa tgccatttgt ccaggctttg ttaacacagc catccttgaa 600
tcaattgaaa aagaagaaaa catgggacaa tatatagaat ataaggatca tatcaaggat 660
atgattaaat actatggaat tttggacca ccattgattg ccaatggatt gataacactc 720
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cacttctt
1448

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PA-0038 US

<210> 40
<211> 266
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 124600CD1

<400> 40

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Gly Ile Gly Arg Ala Phe Ala Glu Ala Leu Leu Leu Lys Gly Ala
20 25 30
Lys Val Ala Leu Val Asp Trp Asn Leu Glu Ala Gly Val Gln Cys
35 40 45
Lys Ala Ala Leu Asp Glu Gln Phe Glu Pro Gln Lys Thr Leu Phe
50 55 60
Ile Gln Cys Asp Val Ala Asp Gln Gln Gln Leu Arg Asp Thr Phe
65 70 75
Arg Lys Val Val Asp His Phe Gly Arg Leu Asp Ile Leu Val Asn
80 85 90
Asn Ala Gly Val Asn Asn Glu Lys Asn Trp Glu Lys Thr Leu Gln
95 100 105
Ile Asn Leu Val Ser Val Ile Ser Gly Thr Tyr Leu Gly Leu Asp
110 115 120
Tyr Met Ser Lys Gln Asn Gly Gly Glu Gly Gly Ile Ile Ile Asn
125 130 135
Met Ser Ser Leu Ala Gly Leu Met Pro Val Ala Gln Gln Pro Val
140 145 150
Tyr Cys Ala Ser Lys His Gly Ile Val Gly Phe Thr Arg Ser Ala
155 160 165
Ala Leu Ala Ala Asn Leu Met Asn Ser Gly Val Arg Leu Asn Ala
170 175 180
Ile Cys Pro Gly Phe Val Asn Thr Ala Ile Leu Glu Ser Ile Glu
185 190 195
Lys Glu Glu Asn Met Gly Gln Tyr Ile Glu Tyr Lys Asp His Ile
200 205 210
Lys Asp Met Ile Lys Tyr Tyr Gly Ile Leu Asp Pro Pro Leu Ile
215 220 225
Ala Asn Gly Leu Ile Thr Leu Ile Glu Asp Asp Ala Leu Asn Gly
230 235 240
Ala Ile Met Lys Ile Thr Thr Ser Lys Gly Ile His Phe Gln Asp
245 250 255
Tyr Asp Thr Thr Pro Phe Gln Ala Lys Thr Gln
260 265

<210> 41
<211> 743
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 978410.7

<400> 41

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taagtcagaa agaaatttta tgaattcagg taattaaaaa gtccagaagt atctgccttt 180
aggcacagct ggatccaagg gcacaaatga tgtcatcagg ctccagttat tctccatctc 240
ccagctcagc tttttctgtc tgtaagcctg attttcagga aggctctttc ctagtgatgg 300
agatgaccac catcagctcc aggcttctat cctgctaacc cagtaaccga gtgggaagag 360
atttacttat tccaataatt ccaagtggag agtgtcattg acccgtttgg ggtctcatct 420
ctacttctag gggaatgaaa cactctgagt ggccaggcct gtgtcatgtg ctaattccta 480
gagccaggga aataaggtct gaggattcag gatgggggtga aaggtggttg cttaaaggaa 540

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aatgaaatac aattagcaga ataaggggaa acgagtggtc tgctctgctc gggcaaaaaca 600
agagatgccc attactgtga gggacccttg aagtctggac tcttaaattg gtttttgcgtg 660
atttcctggg tgcattgctag gatgatgggg cttgatgcag tagggaagag acgatgtaaa 720
aataataaac aatatataacc ttc

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<210> 42
<211> 830
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<223> Incyte ID No: 1401116.1

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cggccaccat tatttgtggg ggacacaacg ttggaagtta tagtgccac tgggtaccaac 180
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ctgtcactct gttccccgcc tctcttgagg agctccaagc caacaaggcc acactagtgt 480
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aggtcacgca tgaaggggag accgtggaga agacagtggc ccctacagaa tgttcatagg 720
ttcccaactc taaccccacc cacgggagcc tggagctgca ggatcccagg ggaggggtct 780
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<210> 43
<211> 2147
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<223> Incyte ID No: 2921009CB1

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<400> 43
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taaagaggag cctgaaactg ttccctggac atcttatgaa tgtcagaaaa taccttttgg 180
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tatgtccct gctctggaat ccaccagcgg gctatctgcg tttatggggc tggggacttg 1560

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<210> 44

<211> 438

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2921009CD1

<400> 44

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20 25 30
Phe Arg Leu Lys Cys Asp Ser Asp His Leu Gly Leu Glu Ser Arg
35 40 45
Glu Ser Gln Ser Gln Tyr Cys Arg Asn Ile Leu Tyr Asn Phe Leu
50 55 60
Lys Leu Pro Ala Lys Arg Ser Ile Asn Cys Ser Gly Val Thr Arg
65 70 75
Gly Asp Gln Glu Ala Val Leu Gln Ala Ile Leu Asn Asn Leu Glu
80 85 90
Val Lys Lys Lys Arg Glu Pro Phe Thr Asp Thr His Tyr Leu Ser
95 100 105
Leu Thr Arg Asp Cys Glu His Phe Lys Ala Glu Arg Lys Phe Ile
110 115 120
Gln Phe Pro Leu Ser Lys Glu Glu Val Glu Phe Pro Ile Ala Tyr
125 130 135
Ser Met Val Ile His Glu Lys Ile Glu Asn Phe Glu Arg Leu Leu
140 145 150
Arg Ala Val Tyr Ala Pro Gln Asn Ile Tyr Cys Val His Val Asp
155 160 165
Glu Lys Ser Pro Glu Thr Phe Lys Glu Ala Val Lys Ala Ile Ile
170 175 180
Ser Cys Phe Pro Asn Val Phe Ile Ala Ser Lys Leu Val Arg Val
185 190 195
Val Tyr Ala Ser Trp Ser Arg Val Gln Ala Asp Leu Asn Cys Met
200 205 210
Glu Asp Leu Leu Gln Ser Ser Val Pro Trp Lys Tyr Phe Leu Asn
215 220 225
Thr Cys Gly Thr Asp Phe Pro Ile Lys Ser Asn Ala Glu Met Val
230 235 240
Gln Ala Leu Lys Met Leu Asn Gly Arg Asn Ser Met Glu Ser Glu
245 250 255
Val Pro Pro Lys His Lys Glu Thr Arg Trp Lys Tyr His Phe Glu
260 265 270
Val Val Arg Asp Thr Leu His Leu Thr Asn Lys Lys Lys Asp Pro
275 280 285
Pro Pro Tyr Asn Leu Thr Met Phe Thr Gly Asn Ala Tyr Ile Val
290 295 300
Ala Ser Arg Asp Phe Val Gln His Val Leu Lys Asn Pro Lys Ser
305 310 315
Gln Gln Leu Ile Glu Trp Val Lys Asp Thr Tyr Ser Pro Asp Glu
320 325 330
His Leu Trp Ala Thr Leu Gln Arg Ala Arg Trp Met Pro Gly Ser

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	335		340		345
Val Pro Asn His	Pro Lys Tyr Asp Ile	Ser Asp Met Thr Ser	Ile		
	350		355		360
Ala Arg Leu Val	Lys Trp Gln Gly His	Glu Gly Asp Ile Asp	Lys		
	365		370		375
Gly Ala Pro Tyr	Ala Pro Cys Ser Gly	Ile His Gln Arg Ala	Ile		
	380		385		390
Cys Val Tyr Gly	Ala Gly Asp Leu Asn	Trp Met Leu Gln Asn	His		
	395		400		405
His Leu Leu Ala	Asn Lys Phe Asp Pro	Lys Val Asp Asp Asn	Ala		
	410		415		420
Leu Gln Cys Leu	Glu Glu Tyr Leu Arg	Tyr Lys Ala Ile Tyr	Gly		
	425		430		435
Thr Glu Leu					

<210> 45

<211> 2150

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 255115.4

<220>

<221> unsure

<222> 2087, 2089, 2094, 2096-2098, 2108, 2110, 2112, 2115-2116, 2120, 2122-2123, 2125, 2136

<223> a, t; c, g, or other

<400> 45

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gaagagcttg ttcagagggg tcatgaggtg attgtgttga catcttcggc ttctattctt 240
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gatcaaatga ttttcatgga gaggataaaa aatatgat atagcttta ttttgacttt 720
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gtactttagt tgggaattatt ctatgtcaat gatttttaag ctatgaaaaa taataatata 1860
aaaccttatg ggcttatatt gaaatttatt attctaacc aaaagttacc ccacacaaaa 1920
gttactgagc ttcttatgt ttcacacatt gtatttgatc acaaaacatt aacaactcca 1980
ctcatagtat caacattgtt ttgcaaatat tcagaatatt ttggcttcat tttgagcaga 2040

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 aaaaaaanan anaannaach annymaaaaa aaaaangggc ggccgccgac 2150

<210> 46
 <211> 764
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1213592.1

<220>
 <221> unsure
 <222> 692
 <223> a, t, c, g, or other

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<210> 47
 <211> 1764
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1376382CB1

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1764

<210> 48

<211> 453

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1376382CD1

<400> 48

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35 40 45
Leu His Leu Asp Pro Thr Tyr His Ile Thr Asp Asp His Thr Lys
50 55 60
Val Cys Ala Ser Ser Lys Gly Ala Asn Ala Ser Asn Pro Gly Pro
65 70 75
Phe Gly Asp Val Leu Cys Asp Ser Pro Tyr Gln Leu Ile Leu Ser
80 85 90
Ala Phe Asp Phe Ile Lys Asn Ser Gly Gln Glu Ala Ser Phe Met
95 100 105
Ile Trp Thr Gly Asp Ser Pro Pro His Val Pro Val Pro Glu Leu
110 115 120
Ser Thr Asp Thr Val Ile Asn Val Ile Thr Asn Met Thr Thr Thr
125 130 135
Ile Gln Ser Leu Phe Pro Asn Leu Gln Val Phe Pro Ala Leu Gly
140 145 150
Asn His Asp Tyr Trp Pro Gln Asp Gln Leu Pro Val Val Thr Ser
155 160 165
Lys Val Tyr Asn Ala Val Ala Asn Leu Trp Lys Pro Trp Leu Asp
170 175 180
Glu Glu Ala Ile Ser Thr Leu Arg Lys Gly Gly Phe Tyr Ser Gln
185 190 195
Lys Val Thr Thr Asn Pro Asn Leu Arg Ile Ile Ser Leu Asn Thr
200 205 210
Asn Leu Tyr Tyr Gly Pro Asn Ile Met Thr Leu Asn Lys Thr Asp
215 220 225
Pro Ala Asn Gln Phe Glu Trp Leu Glu Ser Thr Leu Asn Asn Ser
230 235 240
Gln Gln Asn Lys Glu Lys Val Tyr Ile Ile Ala His Val Pro Val
245 250 255
Gly Tyr Leu Pro Ser Ser Gln Asn Ile Thr Ala Met Arg Glu Tyr
260 265 270
Tyr Asn Glu Lys Leu Ile Asp Ile Phe Gln Lys Tyr Ser Asp Val
275 280 285
Ile Ala Gly Gln Phe Tyr Gly His Thr His Arg Asp Ser Ile Met
290 295 300
Val Leu Ser Asp Lys Lys Gly Ser Pro Val Asn Ser Leu Phe Val
305 310 315
Ala Pro Ala Val Thr Pro Val Lys Ser Val Leu Glu Lys Gln Thr
320 325 330
Asn Asn Pro Gly Ile Arg Leu Phe Gln Tyr Asp Pro Arg Asp Tyr
335 340 345
Lys Leu Leu Asp Met Leu Gln Tyr Tyr Leu Asn Leu Thr Glu Ala
350 355 360
Asn Leu Lys Gly Glu Ser Ile Trp Lys Leu Glu Tyr Ile Leu Thr

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PA-0038 US

Gln Thr Tyr Asp	365	Ile Glu Asp Leu	Gln Pro Glu Ser Leu Tyr	375	Gly
Leu Ala Lys Gln	380	Phe Thr Ile Leu	Asp Ser Lys Gln Phe Ile	390	Lys
Tyr Tyr Asn Tyr	395	Phe Phe Val Ser	Tyr Asp Ser Ser Val Thr	405	Cys
Asp Lys Thr Cys	410	Lys Ala Phe Gln	Ile Cys Ala Ile Met Asn	420	Leu
Asp Asn Ile Ser	425	Tyr Ala Asp Cys	Leu Lys Gln Leu Tyr Ile	435	Lys
His Asn Tyr	440			445	450

<210> 49
<211> 2107
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2264641CB1

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<210> 50
<211> 632
<212> PRT
<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2264641CD1

<400> 50

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				20					25					30
Ala	Gln	Ala	Ala	Ala	Val	Asp	Phe	Ala	His	Lys	Phe	Cys	Arg	Phe
				35					40					45
Leu	Arg	Asp	Asn	Pro	Ala	Tyr	Asp	Thr	Pro	Asp	Ala	Gly	Ala	Ser
				50					55					60
Phe	Ser	Arg	His	Phe	Ala	Ala	Asn	Phe	Leu	Asp	Val	Phe	Gly	Glu
				65					70					75
Glu	Val	Arg	Arg	Val	Leu	Val	Ala	Gly	Pro	Thr	Thr	Arg	Gly	Ala
				80					85					90
Ala	Val	Ser	Ala	Glu	Ala	Met	Glu	Pro	Glu	Leu	Ala	Asp	Thr	Ser
				95					100					105
Ala	Leu	Lys	Ala	Ala	Ser	Tyr	Gly	His	Ser	Arg	Ser	Ser	Glu	Asp
				110					115					120
Val	Ser	Thr	His	Ala	Ala	Thr	Lys	Ala	Arg	Val	Arg	Lys	Gly	Phe
				125					130					135
Ser	Leu	Arg	Asn	Met	Ser	Leu	Cys	Val	Val	Asp	Gly	Val	Arg	Asp
				140					145					150
Met	Trp	His	Arg	Arg	Ala	Ser	Pro	Glu	Pro	Asp	Ala	Ala	Ala	Ala
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Pro	Arg	Thr	Ala	Glu	Pro	Arg	Asp	Lys	Trp	Thr	Arg	Arg	Leu	Arg
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Leu	Ser	Arg	Thr	Leu	Ala	Ala	Lys	Val	Glu	Leu	Val	Asp	Ile	Gln
				185					190					195
Arg	Glu	Gly	Ala	Leu	Arg	Phe	Met	Val	Ala	Asp	Asp	Ala	Ala	Ala
				200					205					210
Gly	Ser	Gly	Gly	Ser	Ala	Gln	Trp	Gln	Lys	Cys	Arg	Leu	Leu	Leu
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Arg	Arg	Ala	Val	Ala	Glu	Glu	Arg	Phe	Arg	Leu	Glu	Phe	Phe	Val
				230					235					240
Pro	Pro	Lys	Ala	Ser	Arg	Pro	Lys	Val	Ser	Ile	Pro	Leu	Ser	Ala
				245					250					255
Ile	Ile	Glu	Val	Arg	Thr	Thr	Met	Pro	Leu	Glu	Met	Pro	Glu	Lys
				260					265					270
Asp	Asn	Thr	Phe	Val	Leu	Lys	Val	Glu	Asn	Gly	Ala	Glu	Tyr	Ile
				275					280					285
Leu	Glu	Thr	Ile	Asp	Ser	Leu	Gln	Lys	His	Ser	Trp	Val	Ala	Asp
				290					295					300
Ile	Gln	Gly	Cys	Val	Asp	Pro	Gly	Asp	Ser	Glu	Glu	Asp	Thr	Glu
				305					310					315
Leu	Ser	Cys	Thr	Arg	Gly	Gly	Cys	Leu	Ala	Ser	Arg	Val	Ala	Ser
				320					325					330
Cys	Ser	Cys	Glu	Leu	Leu	Thr	Asp	Ala	Val	Asp	Leu	Pro	Arg	Pro
				335					340					345
Pro	Glu	Thr	Thr	Ala	Val	Gly	Ala	Val	Val	Thr	Ala	Pro	His	Ser
				350					355					360
Arg	Gly	Arg	Asp	Ala	Val	Arg	Glu	Ser	Leu	Ile	His	Val	Pro	Leu
				365					370					375
Glu	Thr	Phe	Leu	Gln	Thr	Leu	Glu	Ser	Pro	Gly	Gly	Ser	Gly	Ser
				380					385					390
Asp	Ser	Asn	Asn	Thr	Gly	Glu	Gln	Gly	Ala	Glu	Thr	Asp	Pro	Glu
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Ala	Glu	Pro	Glu	Leu	Glu	Leu	Ser	Asp	Tyr	Pro	Trp	Phe	His	Gly
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Thr	Leu	Ser	Arg	Val	Lys	Ala	Ala	Gln	Leu	Val	Leu	Ala	Gly	Gly
				425					430					435
Pro	Arg	Asn	His	Gly	Leu	Phe	Val	Ile	Arg	Gln	Ser	Glu	Thr	Arg
				440					445					450
Pro	Gly	Glu	Tyr	Val	Leu	Thr	Phe	Asn	Phe	Gln	Gly	Lys	Ala	Lys

	455		460		465
His Leu Arg Leu	Ser Leu Asn Gly	His Gly Gln Cys	His Val Gln		
	470		475		480
His Leu Trp Phe	Gln Ser Val Leu	Asp Met Leu Arg	His Phe His		
	485		490		495
Thr His Pro Ile	Pro Leu Glu Ser	Gly Gly Ser Ala	Asp Ile Thr		
	500		505		510
Leu Arg Ser Tyr	Val Arg Ala Gln	Asp Pro Pro Glu	Pro Gly		
	515		520		525
Pro Thr Pro Pro	Ala Ala Pro Ala	Ser Pro Ala Cys	Trp Ser Asp		
	530		535		540
Ser Pro Gly Gln	His Tyr Phe Ser	Ser Leu Ala Ala	Ala Ala Cys		
	545		550		555
Pro Pro Ala Ser	Pro Ser Asp Ala	Ala Gly Ala Ser	Ser Ser Ser		
	560		565		570
Ala Ser Ser Ser	Ser Ala Ala Ser	Gly Pro Ala Pro	Pro Arg Pro		
	575		580		585
Val Glu Gly Gln	Leu Ser Ala Arg	Ser Arg Ser Asn	Ser Ala Glu		
	590		595		600
Arg Leu Leu Glu	Ala Val Ala Ala	Thr Ala Ala Glu	Glu Glu Pro		
	605		610		615
Glu Ala Ala Pro	Gly Arg Ala Arg	Ala Val Glu Asn	Gln Tyr Ser		
	620		625		630
Phe Tyr					

<210> 51

<211> 1863

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 237547CB1

<400> 51

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tcgggacgac	acccagcggt	tatgggggtg	ctggaggccg	gggtatccgc	atctccaact	180
ccagacacac	ggtgaactat	gggagcgatc	tcacaggcgg	cggggacctg	tttgttggca	240
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ggaccctgga	gcagtcacaac	tccaaacttg	aagtgcacaa	caagcagtg	tacgaaacca	360
acgccccgag	ggctggctgc	gactacagtg	catattacag	acaaattgaa	gagctgcgaa	420
gtcagattaa	ggatgctcaa	ctgcaaaatg	ctcgggtgtg	cctgcaaatt	gataatgcta	480
aactggctgc	tgaggacttc	agactgaagt	atgagactga	gagaggaata	cgtctaacag	540
tggaagctga	tctccaaggc	ctgaataagg	tctttgatga	cctaacccta	cataaaacag	600
atttgagat	tcaaattgaa	gaactgaata	aagacctagc	tctcctcaaa	aaggagcatc	660
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ctgctccagg	cctgaacctt	ggcgctcatc	tgaatgaaat	gaggcagaag	tatgaagtca	780
tggcccagaa	gaaccttcaa	gaggccaaag	aacagtttga	gagacagact	gcagttctgc	840
agcaacaggt	cacagtgaat	actgaagaat	taaaagggaac	tgaggttcaa	ctaaccggagc	900
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agaacaacga	ataccatata	cttcttgaca	taaagactcg	acttgaacag	gaaattgcta	1140
cttaccgccg	ccttctggaa	ggagaagacg	taaaaactac	agaatatcag	ttaagcacc	1200
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atggcaagggt	cgtgtcatct	gaagtcaaag	agggtggaaga	aaatatctaa	atagctacca	1320
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gtaatgttcc	tgaaaattgc	aatacatttc	aattatacta	aacctcacia	agtagaggaa	1680
tccatgtaaa	ttgcaataaa	accactttct	aattttttcc	tgtttctgaa	ttgtaaaacc	1740
ccctttggga	gtccctggtt	tcttattgag	ccaattttctg	ggttaatctt	attgattttt	1800

cagcatcagt acaactctac aacctttgag ctatatctgc tttttcccat tgcttcact 1860
gcc 1863

<210> 52

<211> 424

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 237547CD1

<400> 52

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Leu	Gln	Ala	Pro	Val	Val	Ser	Thr	Val	Gly	Met	Gln	Arg	Leu	Gly
				20					25					30
Thr	Thr	Pro	Ser	Val	Tyr	Gly	Gly	Ala	Gly	Gly	Arg	Gly	Ile	Arg
				35					40					45
Ile	Ser	Asn	Ser	Arg	His	Thr	Val	Asn	Tyr	Gly	Ser	Asp	Leu	Thr
				50					55					60
Gly	Gly	Gly	Asp	Leu	Phe	Val	Gly	Asn	Glu	Lys	Met	Ala	Met	Gln
				65					70					75
Asn	Leu	Asn	Asp	Arg	Leu	Ala	Ser	Tyr	Leu	Glu	Lys	Val	Arg	Thr
				80					85					90
Leu	Glu	Gln	Ser	Asn	Ser	Lys	Leu	Glu	Val	Gln	Ile	Lys	Gln	Trp
				95					100					105
Tyr	Glu	Thr	Asn	Ala	Pro	Arg	Ala	Gly	Arg	Asp	Tyr	Ser	Ala	Tyr
				110					115					120
Tyr	Arg	Gln	Ile	Glu	Glu	Leu	Arg	Ser	Gln	Ile	Lys	Asp	Ala	Gln
				125					130					135
Leu	Gln	Asn	Ala	Arg	Cys	Val	Leu	Gln	Ile	Asp	Asn	Ala	Lys	Leu
				140					145					150
Ala	Ala	Glu	Asp	Phe	Arg	Leu	Lys	Tyr	Glu	Thr	Glu	Arg	Gly	Ile
				155					160					165
Arg	Leu	Thr	Val	Glu	Ala	Asp	Leu	Gln	Gly	Leu	Asn	Lys	Val	Phe
				170					175					180
Asp	Asp	Leu	Thr	Leu	His	Lys	Thr	Asp	Leu	Glu	Ile	Gln	Ile	Glu
				185					190					195
Glu	Leu	Asn	Lys	Asp	Leu	Ala	Leu	Leu	Lys	Lys	Glu	His	Gln	Glu
				200					205					210
Glu	Val	Asp	Gly	Leu	His	Lys	His	Leu	Gly	Asn	Thr	Val	Asn	Val
				215					220					225
Glu	Val	Asp	Ala	Ala	Pro	Gly	Leu	Asn	Leu	Gly	Val	Ile	Met	Asn
				230					235					240
Glu	Met	Arg	Gln	Lys	Tyr	Glu	Val	Met	Ala	Gln	Lys	Asn	Leu	Gln
				245					250					255
Glu	Ala	Lys	Glu	Gln	Phe	Glu	Arg	Gln	Thr	Ala	Val	Leu	Gln	Gln
				260					265					270
Gln	Val	Thr	Val	Asn	Thr	Glu	Glu	Leu	Lys	Gly	Thr	Glu	Val	Gln
				275					280					285
Leu	Thr	Glu	Leu	Arg	Arg	Thr	Ser	Gln	Ser	Leu	Glu	Ile	Glu	Leu
				290					295					300
Gln	Ser	His	Leu	Ser	Met	Lys	Glu	Ser	Leu	Glu	His	Thr	Leu	Glu
				305					310					315
Glu	Thr	Lys	Ala	Arg	Tyr	Ser	Ser	Gln	Leu	Ala	Asn	Leu	Gln	Ser
				320					325					330
Leu	Leu	Ser	Ser	Leu	Glu	Ala	Gln	Leu	Met	Gln	Ile	Arg	Ser	Asn
				335					340					345
Met	Glu	Arg	Gln	Asn	Asn	Glu	Tyr	His	Ile	Leu	Leu	Asp	Ile	Lys
				350					355					360
Thr	Arg	Leu	Glu	Gln	Glu	Ile	Ala	Thr	Tyr	Arg	Arg	Leu	Leu	Glu
				365					370					375
Gly	Glu	Asp	Val	Lys	Thr	Thr	Glu	Tyr	Gln	Leu	Ser	Thr	Leu	Glu
				380					385					390
Glu	Arg	Asp	Ile	Lys	Lys	Thr	Arg	Lys	Ile	Lys	Thr	Val	Val	Gln

395 400 405
 Glu Val Val Asp Lys Lys Val Val Ser Ser Glu Val Lys Glu Val
 410 415 420
 Glu Glu Asn Ile

<210> 53
 <211> 3169
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2771481CB1

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 gatattgtca ttgttataga tcctagtgtg ccagaagatg aaaaaataat tgaacaaata 180
 gaggatatgg tgactacagc ttctacgtac ctgtttgaag ccacagaaaa aagatttttt 240
 ttcaaaaatg tatctatatt aattcctgag aatttgaagg aaaatcctca gtacaaaagg 300
 ccaaaaacatg aaaaccataa acatgctgat gttatagttg caccacctac actcccagg 360
 agagatgaac catacaccaa gcagttcaca gaaatgaat agaaaggcga atacattcac 420
 ttcaccctcg accttctact tggaaaaaaa caaaatgaat atggaccacc aggcacactg 480
 tttgtccatg agtgggctca cctccggtgg ggagtgtttg atgagtacaa tgaagatcag 540
 cctttctacc gtgctaagtc aaaaaaaatc gaagcaacaa ggtgttccgc aggtatctct 600
 ggtagaaata gaggttataa gtgtcaagga ggcagctgtc ttagtagagc atgcagaatt 660
 gattctacaa caaaactgta tggaaaagat tgtcaattct ttcttgataa agtacaacaa 720
 gaaaaagcat ccataatggt tatgcaaagt attgattctg ttgttgaatt ttgtaacgaa 780
 aaaaccata atcaagaagc tccaagccta caaacataa agtgcaattt tagaagtaca 840
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 cctccacctg tcttctcatt gctgaagatc agtcaaagaa ttgtgtgctt agttcttgat 960
 aagtctggaa gcatgggggg taaggaccgc ctaaactcgaa tgaatcaagc agcaaaacat 1020
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<210> 54

<211> 917

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2771481CD1

<400> 54

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 Phe Glu Asp Ile Val Ile Val Ile Asp Pro Ser Val Pro Glu Asp
 35 40 45
 Glu Lys Ile Ile Glu Gln Ile Glu Asp Met Val Thr Thr Ala Ser
 50 55 60
 Thr Tyr Leu Phe Glu Ala Thr Glu Lys Arg Phe Phe Phe Lys Asn
 65 70 75
 Val Ser Ile Leu Ile Pro Glu Asn Trp Lys Glu Asn Pro Gln Tyr
 80 85 90
 Lys Arg Pro Lys His Glu Asn His Lys His Ala Asp Val Ile Val
 95 100 105
 Ala Pro Pro Thr Leu Pro Gly Arg Asp Glu Pro Tyr Thr Lys Gln
 110 115 120
 Phe Thr Glu Cys Gly Glu Lys Gly Glu Tyr Ile His Phe Thr Pro
 125 130 135
 Asp Leu Leu Leu Gly Lys Lys Gln Asn Glu Tyr Gly Pro Pro Gly
 140 145 150
 Lys Leu Phe Val His Glu Trp Ala His Leu Arg Trp Gly Val Phe
 155 160 165
 Asp Glu Tyr Asn Glu Asp Gln Pro Phe Tyr Arg Ala Lys Ser Lys
 170 175 180
 Lys Ile Glu Ala Thr Arg Cys Ser Ala Gly Ile Ser Gly Arg Asn
 185 190 195
 Arg Val Tyr Lys Cys Gln Gly Gly Ser Cys Leu Ser Arg Ala Cys
 200 205 210
 Arg Ile Asp Ser Thr Thr Lys Leu Tyr Gly Lys Asp Cys Gln Phe
 215 220 225
 Phe Pro Asp Lys Val Gln Thr Glu Lys Ala Ser Ile Met Phe Met
 230 235 240
 Gln Ser Ile Asp Ser Val Val Glu Phe Cys Asn Glu Lys Thr His
 245 250 255
 Asn Gln Glu Ala Pro Ser Leu Gln Asn Ile Lys Cys Asn Phe Arg
 260 265 270
 Ser Thr Trp Glu Val Ile Ser Asn Ser Glu Asp Phe Lys Asn Thr
 275 280 285
 Ile Pro Met Val Thr Pro Pro Pro Pro Pro Val Phe Ser Leu Leu
 290 295 300
 Lys Ile Ser Gln Arg Ile Val Cys Leu Val Leu Asp Lys Ser Gly
 305 310 315
 Ser Met Gly Gly Lys Asp Arg Leu Asn Arg Met Asn Gln Ala Ala
 320 325 330
 Lys His Phe Leu Leu Gln Thr Val Glu Asn Gly Ser Trp Val Gly
 335 340 345
 Met Val His Phe Asp Ser Thr Ala Thr Ile Val Asn Lys Leu Ile
 350 355 360
 Gln Ile Lys Ser Ser Asp Glu Arg Asn Thr Leu Met Ala Gly Leu
 365 370 375
 Pro Thr Tyr Pro Leu Gly Gly Thr Ser Ile Cys Ser Gly Ile Lys
 380 385 390

Tyr	Ala	Phe	Gln	Val	Ile	Gly	Glu	Leu	His	Ser	Gln	Leu	Asp	Gly
				395					400					405
Ser	Glu	Val	Leu	Leu	Leu	Thr	Asp	Gly	Glu	Asp	Asn	Thr	Ala	Ser
				410					415					420
Ser	Cys	Ile	Asp	Glu	Val	Lys	Gln	Ser	Gly	Ala	Ile	Val	His	Phe
				425					430					435
Ile	Ala	Leu	Gly	Arg	Ala	Ala	Asp	Glu	Ala	Val	Ile	Glu	Met	Ser
				440					445					450
Lys	Ile	Thr	Gly	Gly	Ser	His	Phe	Tyr	Val	Ser	Asp	Glu	Ala	Gln
				455					460					465
Asn	Asn	Gly	Leu	Ile	Asp	Ala	Phe	Gly	Ala	Leu	Thr	Ser	Gly	Asn
				470					475					480
Thr	Asp	Leu	Ser	Gln	Lys	Ser	Leu	Gln	Leu	Glu	Ser	Lys	Gly	Leu
				485					490					495
Thr	Leu	Asn	Ser	Asn	Ala	Trp	Met	Asn	Asp	Thr	Val	Ile	Ile	Asp
				500					505					510
Ser	Thr	Val	Gly	Lys	Asp	Thr	Phe	Phe	Leu	Ile	Thr	Trp	Asn	Ser
				515					520					525
Leu	Pro	Pro	Ser	Ile	Ser	Leu	Trp	Asp	Pro	Ser	Gly	Thr	Ile	Met
				530					535					540
Glu	Asn	Phe	Thr	Val	Asp	Ala	Thr	Ser	Lys	Met	Ala	Tyr	Leu	Ser
				545					550					555
Ile	Pro	Gly	Thr	Ala	Lys	Val	Gly	Thr	Trp	Ala	Tyr	Asn	Leu	Gln
				560					565					570
Ala	Lys	Ala	Asn	Pro	Glu	Thr	Leu	Thr	Ile	Thr	Val	Thr	Ser	Arg
				575					580					585
Ala	Ala	Asn	Ser	Ser	Val	Pro	Pro	Ile	Thr	Val	Asn	Ala	Lys	Met
				590					595					600
Asn	Lys	Asp	Val	Asn	Ser	Phe	Pro	Ser	Pro	Met	Ile	Val	Tyr	Ala
				605					610					615
Glu	Ile	Leu	Gln	Gly	Tyr	Val	Pro	Val	Leu	Gly	Ala	Asn	Val	Thr
				620					625					630
Ala	Phe	Ile	Glu	Ser	Gln	Asn	Gly	His	Thr	Glu	Val	Leu	Glu	Leu
				635					640					645
Leu	Asp	Asn	Gly	Ala	Gly	Ala	Asp	Ser	Phe	Lys	Asn	Asp	Gly	Val
				650					655					660
Tyr	Ser	Arg	Tyr	Phe	Thr	Ala	Tyr	Thr	Glu	Asn	Gly	Arg	Tyr	Ser
				665					670					675
Leu	Lys	Val	Arg	Ala	His	Gly	Gly	Ala	Asn	Thr	Ala	Arg	Leu	Lys
				680					685					690
Leu	Arg	Pro	Pro	Leu	Asn	Arg	Ala	Ala	Tyr	Ile	Pro	Gly	Trp	Val
				695					700					705
Val	Asn	Gly	Glu	Ile	Glu	Ala	Asn	Pro	Pro	Arg	Pro	Glu	Ile	Asp
				710					715					720
Glu	Asp	Thr	Gln	Thr	Thr	Leu	Glu	Asp	Phe	Ser	Arg	Thr	Ala	Ser
				725					730					735
Gly	Gly	Ala	Phe	Val	Val	Ser	Gln	Val	Pro	Ser	Leu	Pro	Leu	Pro
				740					745					750
Asp	Gln	Tyr	Pro	Pro	Ser	Gln	Ile	Thr	Asp	Leu	Asp	Ala	Thr	Val
				755					760					765
His	Glu	Asp	Lys	Ile	Ile	Leu	Thr	Trp	Thr	Ala	Pro	Gly	Asp	Asn
				770					775					780
Phe	Asp	Val	Gly	Lys	Val	Gln	Arg	Tyr	Ile	Ile	Arg	Ile	Ser	Ala
				785					790					795
Ser	Ile	Leu	Asp	Leu	Arg	Asp	Ser	Phe	Asp	Asp	Ala	Leu	Gln	Val
				800					805					810
Asn	Thr	Thr	Asp	Leu	Ser	Pro	Lys	Glu	Ala	Asn	Ser	Lys	Glu	Ser
				815					820					825
Phe	Ala	Phe	Lys	Pro	Glu	Asn	Ile	Ser	Glu	Glu	Asn	Ala	Thr	His
				830					835					840
Ile	Phe	Ile	Ala	Ile	Lys	Ser	Ile	Asp	Lys	Ser	Asn	Leu	Thr	Ser
				845					850					855
Lys	Val	Ser	Asn	Ile	Ala	Gln	Val	Thr	Leu	Phe	Ile	Pro	Gln	Ala
				860					865					870
Asn	Pro	Asp	Asp	Ile	Asp	Pro	Thr	Pro	Thr	Pro	Thr	Pro	Thr	Pro
				875					880					885

Asp Lys Ser His Asn Ser Gly Val Asn Ile Ser Thr Leu Val Leu
 890 895 900
 Ser Val Ile Gly Ser Val Val Ile Val Asn Phe Ile Leu Ser Thr
 905 910 915
 Thr Ile

<210> 55
 <211> 846
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1400916.1

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 gacaaacggc caatatcacc tgctctggag acgcattgcc aaataaatat gcatattggt 180
 tccagcagaa gtcagggcag gcccctttgc tggatcatca tgaggacatt agacgacatt 240
 ccgggatccc tgagagattt tctgggtcca gctcaggac aatggccaca ttgaccatca 300
 gcggggccca ggtggacgat gaagctgtct actattgta ctcaacagac aacagtggaa 360
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 gcagccccgt caaggcggga gtggagacca ccacaccctc caaacaagc aacaacaagt 600
 acgcgccag cagctatctg agcctgacgc ctgagcagtg gaagtccac agaaactaca 660
 gctgccagat cagcatgaa gggagcaccg tggagaagac agtggcccct acagaatggt 720
 cataggttct aaacctcac cccccccacg ccagcctaag gctgcaggat cccaggggag 780
 ggggtctctc tcccaccca aggcatacaag cccttctccc tgcactcaat aaacctcaa 840
 tgaata 846

<210> 56
 <211> 1769
 <212> DNA
 <213> Homo sapiens

<220>
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 <223> Incyte ID No: 253986.11

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<210> 57

<211> 780

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 253986.17

<400> 57

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agaggccagg	atatccgcac	ccccacacct	gtcatccaca	ccaagcatta	actccccatc	660
gccagctgat	gactcaagat	tcccaggagt	tctgtcatt	ctaattgatg	cccattctac	720
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<210> 58

<211> 3149

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2680109CB1

<400> 58

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<210> 59

<211> 764

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2680109CD1

<400> 59

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 35 40 45
 Ser Val Asn Arg His Thr Arg Lys Tyr Trp Cys Arg Gln Gly Ala
 50 55 60
 Arg Gly Gly Cys Ile Thr Leu Ile Ser Ser Glu Gly Tyr Val Ser
 65 70 75
 Ser Lys Tyr Ala Gly Arg Ala Asn Leu Thr Asn Phe Pro Glu Asn
 80 85 90
 Gly Thr Phe Val Val Asn Ile Ala Gln Leu Ser Gln Asp Asp Ser
 95 100 105
 Gly Arg Tyr Lys Cys Gly Leu Gly Ile Asn Ser Arg Gly Leu Ser
 110 115 120
 Phe Asp Val Ser Leu Glu Val Ser Gln Gly Pro Gly Leu Leu Asn
 125 130 135
 Asp Thr Lys Val Tyr Thr Val Asp Leu Gly Arg Thr Val Thr Ile
 140 145 150
 Asn Cys Pro Phe Lys Thr Glu Asn Ala Gln Lys Arg Lys Ser Leu
 155 160 165
 Tyr Lys Gln Ile Gly Leu Tyr Pro Val Leu Val Ile Asp Ser Ser
 170 175 180
 Gly Tyr Val Asn Pro Asn Tyr Thr Gly Arg Ile Arg Leu Asp Ile
 185 190 195

Gln	Gly	Thr	Gly	Gln	Leu	Leu	Phe	Ser	Val	Val	Ile	Asn	Gln	Leu
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Arg	Leu	Ser	Asp	Ala	Gly	Gln	Tyr	Leu	Cys	Gln	Ala	Gly	Asp	Asp
				215					220					225
Ser	Asn	Ser	Asn	Lys	Lys	Asn	Ala	Asp	Leu	Gln	Val	Leu	Lys	Pro
				230					235					240
Glu	Pro	Glu	Leu	Val	Tyr	Glu	Asp	Leu	Arg	Gly	Ser	Val	Thr	Phe
				245					250					255
His	Cys	Ala	Leu	Gly	Pro	Glu	Val	Ala	Asn	Val	Ala	Lys	Phe	Leu
				260					265					270
Cys	Arg	Gln	Ser	Ser	Gly	Glu	Asn	Cys	Asp	Val	Val	Val	Asn	Thr
				275					280					285
Leu	Gly	Lys	Arg	Ala	Pro	Ala	Phe	Glu	Gly	Arg	Ile	Leu	Leu	Asn
				290					295					300
Pro	Gln	Asp	Lys	Asp	Gly	Ser	Phe	Ser	Val	Val	Ile	Thr	Gly	Leu
				305					310					315
Arg	Lys	Glu	Asp	Ala	Gly	Arg	Tyr	Leu	Cys	Gly	Ala	His	Ser	Asp
				320					325					330
Gly	Gln	Leu	Gln	Glu	Gly	Ser	Pro	Ile	Gln	Ala	Trp	Gln	Leu	Phe
				335					340					345
Val	Asn	Glu	Glu	Ser	Thr	Ile	Pro	Arg	Ser	Pro	Thr	Val	Val	Lys
				350					355					360
Gly	Val	Ala	Gly	Ser	Ser	Val	Ala	Val	Leu	Cys	Pro	Tyr	Asn	Arg
				365					370					375
Lys	Glu	Ser	Lys	Ser	Ile	Lys	Tyr	Trp	Cys	Leu	Trp	Glu	Gly	Ala
				380					385					390
Gln	Asn	Gly	Arg	Cys	Pro	Leu	Leu	Val	Asp	Ser	Glu	Gly	Trp	Val
				395					400					405
Lys	Ala	Gln	Tyr	Glu	Gly	Arg	Leu	Ser	Leu	Leu	Glu	Glu	Pro	Gly
				410					415					420
Asn	Gly	Thr	Phe	Thr	Val	Ile	Leu	Asn	Gln	Leu	Thr	Ser	Arg	Asp
				425					430					435
Ala	Gly	Phe	Tyr	Trp	Cys	Leu	Thr	Asn	Gly	Asp	Thr	Leu	Trp	Arg
				440					445					450
Thr	Thr	Val	Glu	Ile	Lys	Ile	Ile	Glu	Gly	Glu	Pro	Asn	Leu	Lys
				455					460					465
Val	Pro	Gly	Asn	Val	Thr	Ala	Val	Leu	Gly	Glu	Thr	Leu	Lys	Val
				470					475					480
Pro	Cys	His	Phe	Pro	Cys	Lys	Phe	Ser	Ser	Tyr	Glu	Lys	Tyr	Trp
				485					490					495
Cys	Lys	Trp	Asn	Asn	Thr	Gly	Cys	Gln	Ala	Leu	Pro	Ser	Gln	Asp
				500					505					510
Glu	Gly	Pro	Ser	Lys	Ala	Phe	Val	Asn	Cys	Asp	Glu	Asn	Ser	Arg
				515					520					525
Leu	Val	Ser	Leu	Thr	Leu	Asn	Leu	Val	Thr	Arg	Ala	Asp	Glu	Gly
				530					535					540
Trp	Tyr	Trp	Cys	Gly	Val	Lys	Gln	Gly	His	Phe	Tyr	Gly	Glu	Thr
				545					550					555
Ala	Ala	Val	Tyr	Val	Ala	Val	Glu	Glu	Arg	Lys	Ala	Ala	Gly	Ser
				560					565					570
Arg	Asp	Val	Ser	Leu	Ala	Lys	Ala	Asp	Ala	Ala	Pro	Asp	Glu	Lys
				575					580					585
Val	Leu	Asp	Ser	Gly	Phe	Arg	Glu	Ile	Glu	Asn	Lys	Ala	Ile	Gln
				590					595					600
Asp	Pro	Arg	Leu	Phe	Ala	Glu	Glu	Lys	Ala	Val	Ala	Asp	Thr	Arg
				605					610					615
Asp	Gln	Ala	Asp	Gly	Ser	Arg	Ala	Ser	Val	Asp	Ser	Gly	Ser	Ser
				620					625					630
Glu	Glu	Gln	Gly	Gly	Ser	Ser	Arg	Ala	Leu	Val	Ser	Thr	Leu	Val
				635					640					645
Pro	Leu	Gly	Leu	Val	Leu	Ala	Val	Gly	Ala	Val	Ala	Val	Gly	Val
				650					655					660
Ala	Arg	Ala	Arg	His	Arg	Lys	Asn	Val	Asp	Arg	Val	Ser	Ile	Arg
				665					670					675
Ser	Tyr	Arg	Thr	Asp	Ile	Ser	Met	Ser	Asp	Phe	Glu	Asn	Ser	Arg
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Glu Phe Gly Ala Asn Asp Asn Met Gly Ala Ser Ser Ile Thr Gln
695 700 705
Glu Thr Ser Leu Gly Gly Lys Glu Glu Phe Val Ala Thr Thr Glu
710 715 720
Ser Thr Thr Glu Thr Lys Glu Pro Lys Lys Ala Lys Arg Ser Ser
725 730 735
Lys Glu Glu Ala Glu Met Ala Tyr Lys Asp Phe Leu Leu Gln Ser
740 745 750
Ser Thr Val Ala Ala Glu Ala Gln Asp Gly Pro Gln Glu Ala
755 760

<210> 60
<211> 655
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1800311CB1

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<210> 61
<211> 115
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1800311CD1

<400> 61
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Phe Ser Leu Glu Ser Val Lys Lys Leu Lys Asp Leu Gln Glu Pro
35 40 45
Gln Glu Pro Arg Val Gly Lys Leu Arg Asn Phe Ala Pro Ile Pro
50 55 60
Gly Glu Pro Val Val Pro Ile Leu Cys Ser Asn Pro Asn Phe Pro
65 70 75
Glu Glu Leu Lys Pro Leu Cys Lys Glu Pro Asn Ala Gln Glu Ile
80 85 90
Leu Gln Arg Leu Glu Glu Ile Ala Glu Asp Pro Gly Thr Cys Glu
95 100 105
Ile Cys Ala Tyr Ala Ala Cys Thr Gly Cys
110 115

<210> 62
<211> 1312
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<223> Incyte ID No: 1804734CB1

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<210> 63
<211> 262
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1804734CD1

<400> 63
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Trp Tyr Glu Arg Phe Val Gln Pro Cys Leu Val Glu Leu Leu Gly
35 40 45
Ser Ala Leu Phe Ile Phe Ile Gly Cys Leu Ser Val Ile Glu Asn
50 55 60
Gly Thr Asp Thr Gly Leu Leu Gln Pro Ala Leu Ala His Gly Leu
65 70 75
Ala Leu Gly Leu Val Ile Ala Thr Leu Gly Asn Ile Ser Gly Gly
80 85 90
His Phe Asn Pro Ala Val Ser Leu Ala Ala Met Leu Ile Gly Gly
95 100 105
Leu Asn Leu Val Met Leu Leu Pro Tyr Trp Val Ser Gln Leu Leu
110 115 120
Gly Gly Met Leu Gly Ala Ala Leu Ala Lys Ala Val Ser Pro Glu
125 130 135
Glu Arg Phe Trp Asn Ala Ser Gly Ala Ala Phe Val Thr Val Gln
140 145 150
Glu Gln Gly Gln Val Ala Gly Ala Leu Val Ala Glu Ile Ile Leu
155 160 165
Thr Thr Leu Leu Ala Leu Ala Val Cys Met Gly Ala Ile Asn Glu
170 175 180
Lys Thr Lys Gly Pro Leu Ala Pro Phe Ser Ile Gly Phe Ala Val
185 190 195
Thr Val Asp Ile Leu Ala Gly Gly Pro Val Ser Gly Gly Cys Met
200 205 210
Asn Pro Ala Arg Ala Phe Gly Pro Ala Val Val Ala Asn His Trp

	215		220		225
Asn Phe His Trp	Ile Tyr Trp Leu Gly	Pro Leu Leu Ala Gly	Leu		
	230		235		240
Leu Val Gly Leu	Leu Ile Arg Cys Phe	Ile Gly Asp Gly Lys	Thr		
	245		250		255
Arg Leu Ile Leu	Lys Ala Arg				
	260				

<210> 64
 <211> 1556
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 3231154CB1

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 ccatcaccat tgatcagctg accatggctg acaacggcac ctacgagtgt tctgtctcgc 660
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<210> 65
 <211> 319
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 3231154CD1

<400> 65
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 20 25 30
 Leu Arg Ala Ser Gln Gly Lys Ser Val Thr Leu Pro Cys Thr Tyr
 35 40 45
 His Thr Ser Thr Ser Ser Arg Glu Gly Leu Ile Gln Trp Asp Lys
 50 55 60
 Leu Leu Leu Thr His Thr Glu Arg Val Val Ile Trp Pro Phe Ser
 65 70 75
 Asn Lys Asn Tyr Ile His Gly Glu Leu Tyr Lys Asn Arg Val Ser

	80		85		90
Ile Ser Asn Asn Ala Glu Gln Ser Asp	Ala Ser Ile Thr Ile Asp				
Gln Leu Thr Met Ala Asp Asn Gly Thr	Tyr Glu Cys Ser Val Ser				
Leu Met Ser Asp Leu Glu Gly Asn Thr	Lys Ser Arg Val Arg Leu				
Leu Val Leu Val Pro Pro Ser Lys Pro	Glu Cys Gly Ile Glu Gly				
Glu Thr Ile Ile Gly Asn Asn Ile Gln	Leu Thr Cys Gln Ser Lys				
Glu Gly Ser Pro Thr Pro Gln Tyr Ser	Trp Lys Arg Tyr Asn Ile				
Leu Asn Gln Glu Gln Pro Leu Ala Gln	Pro Ala Ser Gly Gln Pro				
Val Ser Leu Lys Asn Ile Ser Thr Asp	Thr Ser Gly Tyr Tyr Ile				
Cys Thr Ser Ser Asn Glu Glu Gly Thr	Gln Phe Cys Asn Ile Thr				
Val Ala Val Arg Ser Pro Ser Met Asn	Val Ala Leu Tyr Val Gly				
Ile Ala Val Gly Val Val Ala Ala Leu	Ile Ile Ile Gly Ile Ile				
Ile Tyr Cys Cys Cys Cys Arg Gly Lys	Asp Asp Asn Thr Glu Asp				
Lys Glu Asp Ala Arg Pro Asn Arg Glu	Ala Tyr Glu Glu Pro Pro				
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Tyr Arg Gln Glu Glu Gln Arg Ser Thr	Gly Arg Glu Ser Pro Asp				
His Leu Asp Gln					

<210> 66
 <211> 3476
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 210095.11

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 ccgcccacca ctgcccagct cactactgaa tccatgccat tcaatgttgc agaggggaag 240
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 cagaacgtca cccagaatga cacaggatgc tacaccctac aagtcataaa gtcagatctt 480
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 gagactcagg acacaacct cctgtggtgg ataaacaatc agagcctccc ggtcagtccc 660
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<210> 67

<211> 1237

<212> DNA

<213> Homo sapiens

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<221> misc_feature

<223> Incyte ID No: 2719813CB1

<400> 67

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ggtgccagtc	aagtggggtg	gaaactgcca	gaaggaccgc	cagtccccca	tcaacatcgt	240
caccaccaag	gcaaagggtg	acaaaaaact	gggacgcttc	ttcttctctg	gctacgataa	300
gaagcaaacg	tggactgtcc	aaaataacgg	gcactcagtg	atgatgttgc	tggagaacaa	360
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cgagggcttc	cagccactgg	tggaggcact	gtctaataatc	cccaaacctg	agatgagcac	660
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cctgctggcg	cccactgtgg	cctgcctgct	ggcgggcttc	ctgcgatgat	ggctcacttc	1020
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cccaggtggg	actttaggca	tgattaaaaat	atggacatat	ttttggagaa	acctttctca	1140

agtggtgtttt tagccttcca caactacccc accctgtccc cctccaccca cccctgttcc 1200
 tcctgttcca gggcgggggc tttaaggcca ggagatt 1237

<210> 68
 <211> 312
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2719813CD1

<400> 68
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 20 25 30
 Ser Ser Asn Tyr Pro Cys Leu Val Pro Val Lys Trp Gly Gly Asn
 35 40 45
 Cys Gln Lys Asp Arg Gln Ser Pro Ile Asn Ile Val Thr Thr Lys
 50 55 60
 Ala Lys Val Asp Lys Lys Leu Gly Arg Phe Phe Phe Ser Gly Tyr
 65 70 75
 Asp Lys Lys Gln Thr Trp Thr Val Gln Asn Asn Gly His Ser Val
 80 85 90
 Met Met Leu Leu Glu Asn Lys Ala Ser Ile Ser Gly Gly Gly Leu
 95 100 105
 Pro Ala Pro Tyr Gln Ala Lys Gln Leu His Leu His Trp Ser Asp
 110 115 120
 Leu Pro Tyr Lys Gly Ser Glu His Ser Leu Asp Gly Glu His Phe
 125 130 135
 Ala Met Glu Met His Ile Val His Glu Lys Glu Lys Gly Thr Ser
 140 145 150
 Arg Asn Val Lys Glu Ala Gln Asp Pro Glu Asp Glu Ile Ala Val
 155 160 165
 Leu Ala Phe Leu Val Glu Ala Gly Thr Gln Val Asn Glu Gly Phe
 170 175 180
 Gln Pro Leu Val Glu Ala Leu Ser Asn Ile Pro Lys Pro Glu Met
 185 190 195
 Ser Thr Thr Met Ala Glu Ser Ser Leu Leu Asp Leu Leu Pro Lys
 200 205 210
 Glu Glu Lys Leu Arg His Tyr Phe Arg Tyr Leu Gly Ser Leu Thr
 215 220 225
 Thr Pro Thr Cys Asp Glu Lys Val Val Trp Thr Val Phe Arg Glu
 230 235 240
 Pro Ile Gln Leu His Arg Glu Gln Ile Leu Ala Phe Ser Gln Lys
 245 250 255
 Leu Tyr Tyr Asp Lys Glu Gln Thr Val Ser Met Lys Asp Asn Val
 260 265 270
 Arg Pro Leu Gln Gln Leu Gly Gln Arg Thr Val Ile Lys Ser Gly
 275 280 285
 Ala Pro Gly Arg Pro Leu Pro Trp Ala Leu Pro Ala Leu Leu Gly
 290 295 300
 Pro Met Leu Ala Cys Leu Leu Ala Gly Phe Leu Arg
 305 310

<210> 69
 <211> 973
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2886583CB1

<400> 69

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gtgtcacctt cgtcctgaat gaccacagca tggccttcac tggagatgcc ctggtgatcc 540
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<210> 70
<211> 254
<212> PRT
<213> Homo sapiens

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<220>
<221> misc_feature
<223> Incyte ID No: 2886583CD1

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<400> 70
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 20         25         30
Pro Val Ser Cys Thr Phe Thr Tyr Leu Leu Gly Asp Arg Glu Ser
 35         40         45
Arg Glu Ala Val Leu Ile Asp Pro Val Leu Glu Thr Ala Pro Arg
 50         55         60
Asp Ala Gln Leu Ile Lys Glu Leu Gly Leu Arg Leu Leu Tyr Ala
 65         70         75
Val Asn Thr His Cys His Ala Asp His Ile Thr Gly Ser Gly Leu
 80         85         90
Leu Arg Ser Leu Leu Pro Gly Cys Gln Ser Val Ile Ser Arg Leu
 95        100        105
Ser Gly Ala Gln Ala Asp Leu His Ile Glu Asp Gly Asp Ser Ile
110        115        120
Arg Phe Gly Arg Phe Ala Leu Glu Thr Arg Ala Ser Pro Gly His
125        130        135
Thr Pro Gly Cys Val Thr Phe Val Leu Asn Asp His Ser Met Ala
140        145        150
Phe Thr Gly Asp Ala Leu Leu Ile Arg Gly Cys Gly Arg Thr Asp
155        160        165
Phe Gln Gln Gly Cys Ala Lys Thr Leu Tyr His Ser Val His Glu
170        175        180
Lys Ile Phe Thr Leu Pro Gly Asp Cys Leu Ile Tyr Pro Ala His
185        190        195
Asp Tyr His Gly Phe Thr Val Ser Thr Val Glu Glu Glu Arg Thr
200        205        210
Leu Asn Pro Arg Leu Thr Leu Ser Cys Glu Glu Phe Val Lys Ile
215        220        225
Met Gly Asn Leu Asn Leu Pro Lys Pro Gln Gln Ile Asp Phe Ala
230        235        240
Val Pro Ala Asn Met Arg Cys Gly Val Gln Thr Pro Thr Ala
245        250

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<210> 71
<211> 643
<212> DNA

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<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 025685.3

<400> 71

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cctaagtctg tactattcca ccctttggac gcctcatcca ggacgcagag gactctaggt 540
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<210> 72

<211> 2879

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1808144CB1

<400> 72

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aagaagtgtt caccacatag ttgcaaagggt cttcaacttg ccacagccaa cagaaaaatc 180
aaaatgattg aacccttttg gaatcagtat attgtggcca ggccagtgtg ttctacaaat 240
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aaagtgtgtt gtagctgttc ccacaaaag gccaaagaaa ttgtcctctc tttgttcccc 360
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<210> 73

<211> 764

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1808144CD1

<400> 73

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35 40 45
Ser Pro Gln Lys Ala Lys Arg Ile Val Leu Ser Leu Phe Pro Ile
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Ala Ser Trp Leu Pro Ala Tyr Arg Leu Lys Glu Trp Leu Leu Ser
65 70 75
Asp Ile Val Ser Gly Ile Ser Thr Gly Ile Val Ala Val Leu Gln
80 85 90
Gly Leu Ala Phe Ala Leu Leu Val Asp Ile Pro Pro Val Tyr Gly
95 100 105
Leu Tyr Ala Ser Phe Phe Pro Ala Ile Ile Tyr Leu Phe Phe Gly
110 115 120
Thr Ser Arg His Ile Ser Val Gly Pro Phe Pro Ile Leu Ser Met
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140 145 150
Asp Arg Asn Ala Thr Thr Leu Gly Leu Pro Asn Asn Ser Asn Asn
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Ser Ser Leu Leu Asp Asp Glu Arg Val Arg Val Ala Ala Ala Ala
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Ser Val Thr Val Leu Ser Gly Ile Ile Gln Leu Ala Phe Gly Ile
185 190 195
Leu Arg Ile Gly Phe Val Val Ile Tyr Leu Ser Glu Ser Leu Ile
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Ser Gly Phe Thr Thr Ala Ala Ala Val His Val Leu Val Ser Gln
215 220 225
Leu Lys Phe Ile Phe Gln Leu Thr Val Pro Ser His Thr Asp Pro
230 235 240
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245 250 255
Lys Thr Asn Ile Ala Asp Leu Val Thr Ala Leu Ile Val Leu Leu
260 265 270
Val Val Ser Ile Val Lys Glu Ile Asn Gln Arg Phe Lys Asp Lys
275 280 285
Leu Pro Val Pro Ile Pro Ile Glu Phe Ile Met Thr Val Ile Ala
290 295 300
Ala Gly Val Ser Tyr Gly Cys Asp Phe Lys Asn Arg Phe Lys Val
305 310 315
Ala Val Val Gly Asp Met Asn Pro Gly Phe Gln Pro Pro Ile Thr
320 325 330

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Phe	Ala	Gly	Ser	Thr	Ala	Leu	Ser	Arg	Ser	Ala	Val	Gln	Glu	Ser
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Thr	Gly	Gly	Lys	Thr	Gln	Ile	Ala	Gly	Leu	Ile	Gly	Ala	Ile	Ile
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Val	Leu	Ile	Val	Val	Leu	Ala	Ile	Gly	Phe	Leu	Leu	Ala	Pro	Leu
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Gln	Lys	Ser	Val	Leu	Ala	Ala	Leu	Ala	Leu	Gly	Asn	Leu	Lys	Gly
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Lys	Tyr	Asp	Cys	Leu	Ile	Trp	Ile	Met	Thr	Phe	Ile	Phe	Thr	Ile
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Tyr	Tyr	Asp	Met	Tyr	Glu	Pro	Glu	Gly	Val	Lys	Ile	Phe	Arg	Cys
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Pro	Ser	Pro	Ile	Tyr	Phe	Ala	Asn	Ile	Gly	Phe	Phe	Arg	Arg	Lys
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Trp	Asn	Asp	Asp	Leu	Pro	Leu	Asn	Ile	Glu	Val	Pro	Lys	Ile	Ser
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Leu	His	Ser	Leu	Ile	Leu	Asp	Phe	Ser	Ala	Val	Ser	Phe	Leu	Asp
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Ser	Ser	Ile	Phe	Phe	Leu	Thr	Ile	His	Asp	Ala	Val	Leu	His	Ile
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Leu	Met	Lys	Lys	Asp	Tyr	Ser	Thr	Ser	Lys	Phe	Asn	Pro	Ser	Gln
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Glu	Lys	Asp	Gly	Lys	Ile	Asp	Phe	Thr	Ile	Asn	Thr	Asn	Gly	Gly
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<211> 3503

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 201356.1

<400> 74

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<210> 75

<211> 1575

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 978178.7

<400> 75

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<210> 76

<211> 2222

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 237563.31

<220>

<221> unsure

<222> 2208

<223> a, t, c, g, or other

<400> 76

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<211> 2842

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1100412.5

<400> 77

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<211> 2892

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1100412.4

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<211> 1244

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2101663CB1

<400> 79

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<211> 261

<212> PRT

<213> Homo sapiens

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<223> Incyte ID No: 2101663CD1

<400> 80

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Pro Val Asp Ile Lys Thr Ser Glu Thr Lys His Asp Thr Ser Leu
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Lys Pro Ile Ser Val Ser Tyr Asn Pro Ala Thr Ala Lys Glu Ile
  50          55          60
Ile Asn Val Gly His Ser Phe His Val Asn Phe Glu Asp Asn Asp
  65          70          75
Asn Arg Ser Val Leu Lys Gly Gly Pro Phe Ser Asp Ser Tyr Arg
  80          85          90
Leu Phe Gln Phe His Phe His Trp Gly Ser Thr Asn Glu His Gly
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Ser Glu His Thr Val Asp Gly Val Lys Tyr Ser Ala Glu Leu His
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 Ala Ser Lys Ala Asp Gly Leu Ala Val Ile Gly Val Leu Met Lys
 140 145 150
 Val Gly Glu Ala Asn Pro Lys Leu Gln Lys Val Leu Asp Ala Leu
 155 160 165
 Gln Ala Ile Lys Thr Lys Gly Lys Arg Ala Pro Phe Thr Asn Phe
 170 175 180
 Asp Pro Ser Thr Leu Leu Pro Ser Ser Leu Asp Phe Trp Thr Tyr
 185 190 195
 Pro Gly Ser Leu Thr His Pro Pro Leu Tyr Glu Ser Val Thr Trp
 200 205 210
 Ile Ile Cys Lys Glu Ser Ile Ser Val Ser Ser Glu Gln Leu Ala
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 Gln Phe Arg Ser Leu Leu Ser Asn Val Glu Gly Asp Asn Ala Val
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 <211> 1317
 <212> DNA
 <213> Homo sapiens

<220>
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 <223> Incyte ID No: 611082CB1

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<210> 82
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 <212> PRT
 <213> Homo sapiens

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<400> 82

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 35 40 45
 Ala Gln Arg Ala Gln Pro Tyr Gly Ile Thr Ser Pro Gly Ile Phe
 50 55 60
 Ala Ser Ser Gln Pro Gly Gln Gly Asn Ile Gln Met Ile Asn Pro
 65 70 75
 Ser Val Gly Thr Ala Val Met Asn Phe Lys Glu Glu Ala Lys Ala
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 Gly Ile Val Leu Cys Leu Ile Ser Phe Ser Phe Arg Glu Val Leu
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 Gly Phe Ala Ser Thr Ala Val Ile Gly Gly Tyr Pro Phe Trp Gly
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 Gly Leu Ser Phe Ile Ile Ser Gly Ser Leu Ser Val Ser Ala Ser
 140 145 150
 Lys Glu Leu Ser Arg Cys Leu Val Lys Gly Ser Leu Gly Met Asn
 155 160 165
 Ile Val Ser Ser Ile Leu Ala Phe Ile Gly Val Ile Leu Leu Leu
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 Val Asp Met Cys Ile Asn Gly Val Ala Gly Gln Asp Tyr Trp Ala
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 Val Leu Ser Gly Lys Gly Ile Ser Ala Thr Leu Met Ile Phe Ser
 200 205 210
 Leu Leu Glu Phe Phe Val Ala Cys Ala Thr Ala His Phe Ala Asn
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 Gln Ala Asn Thr Thr Thr Asn Met Ser Val Leu Val Ile Pro Asn
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 <212> DNA
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 <222> 232, 243-244
 <223> a, t, c, g, or other

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<212> DNA

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<223> Incyte ID No: 1092257.2

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<210> 85

<211> 3115

<212> DNA

<213> Homo sapiens

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<223> Incyte ID No: 1102315.3

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<221> unsure

<222> 2713, 2719, 3094

<223> a, t, c, g, or other

<400> 85

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<210> 86

<211> 1571

<212> DNA

<213> Homo sapiens

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<221> misc_feature

<223> Incyte ID No: 1543330CB1

<400> 86

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<210> 87

<211> 412

PA-0038 US

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1543330CD1

<400> 87

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35 40 45
Glu Ala Arg Lys Lys Ala Leu Lys Leu Gly Ala Lys Lys Val Phe
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Ile Glu Asp Val Ser Arg Glu Phe Val Glu Glu Phe Ile Trp Pro
65 70 75
Ala Ile Gln Ser Ser Ala Leu Tyr Glu Asp Arg Tyr Leu Leu Gly
80 85 90
Thr Ser Leu Ala Arg Pro Cys Ile Ala Arg Lys Gln Val Glu Ile
95 100 105
Ala Gln Arg Glu Gly Ala Lys Tyr Val Ser His Gly Ala Thr Gly
110 115 120
Lys Gly Asn Asp Gln Val Arg Phe Glu Leu Ser Cys Tyr Ser Leu
125 130 135
Ala Pro Gln Ile Lys Val Ile Ala Pro Trp Arg Met Pro Glu Phe
140 145 150
Tyr Asn Arg Phe Lys Gly Arg Asn Asp Leu Met Glu Tyr Ala Lys
155 160 165
Gln His Gly Ile Pro Ile Pro Val Thr Pro Lys Asn Pro Trp Ser
170 175 180
Met Asp Glu Asn Leu Met His Ile Ser Tyr Glu Ala Gly Ile Leu
185 190 195
Glu Asn Pro Lys Asn Gln Ala Pro Pro Gly Leu Tyr Thr Lys Thr
200 205 210
Gln Asp Pro Ala Lys Ala Pro Asn Thr Pro Asp Ile Leu Glu Ile
215 220 225
Glu Phe Lys Lys Gly Val Pro Val Lys Val Thr Asn Val Lys Asp
230 235 240
Gly Thr Thr His Gln Thr Ser Leu Glu Leu Phe Met Tyr Leu Asn
245 250 255
Glu Val Ala Gly Lys His Gly Val Gly Arg Ile Asp Ile Val Glu
260 265 270
Asn Arg Phe Ile Gly Met Lys Ser Arg Gly Ile Tyr Glu Thr Pro
275 280 285
Ala Gly Thr Ile Leu Tyr His Ala His Leu Asp Ile Glu Ala Phe
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Thr Met Asp Arg Glu Val Arg Lys Ile Lys Gln Gly Leu Gly Leu
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Glu Gly Lys Val Gln Val Ser Val Leu Lys Gly Gln Val Tyr Ile
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<210> 88

<211> 3152
 <212> DNA
 <213> Homo sapiens

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 <221> unsure
 <222> 1171
 <223> a, t, c, g, or other

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3152

<210> 89

<211> 1239

<212> DNA

<213> Homo sapiens

<220>

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<223> Incyte ID No: 1281620CB1

<400> 89

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<210> 90

<211> 297

<212> PRT

<213> Homo sapiens

<220>

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<223> Incyte ID No: 1281620CD1

<400> 90

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          35          40          45
Lys Glu Tyr Leu Glu Arg His Val Pro Gly Ala Ser Phe Phe Asp
          50          55          60
Ile Glu Glu Cys Arg Asp Thr Ala Ser Pro Tyr Glu Met Met Leu
          65          70          75
Pro Ser Glu Ala Gly Phe Ala Glu Tyr Val Gly Arg Leu Gly Ile
          80          85          90
Ser Asn His Thr His Val Val Val Tyr Asp Gly Glu His Leu Gly
          95          100          105
Ser Phe Tyr Ala Pro Arg Val Trp Trp Met Phe Arg Val Phe Gly
          110          115          120
His Arg Thr Val Ser Val Leu Asn Gly Gly Phe Arg Asn Trp Leu
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Lys Glu Gly His Pro Val Thr Ser Glu Pro Ser Arg Pro Glu Pro
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Ala Val Phe Lys Ala Thr Leu Asp Arg Ser Leu Leu Lys Thr Tyr
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Met	Pro	Phe	Met	Asp	Phe	Leu	Thr	Glu	Asp	Gly	Phe	Glu	Lys	Gly
				215					220					225
Pro	Glu	Glu	Leu	Arg	Ala	Leu	Phe	Gln	Thr	Lys	Lys	Val	Asp	Leu
				230					235					240
Ser	Gln	Pro	Leu	Ile	Ala	Thr	Cys	Arg	Lys	Gly	Val	Thr	Ala	Cys
				245					250					255
His	Val	Ala	Leu	Ala	Ala	Tyr	Leu	Cys	Gly	Lys	Pro	Asp	Val	Ala
				260					265					270
Val	Tyr	Asp	Gly	Ser	Trp	Ser	Glu	Trp	Phe	Arg	Arg	Ala	Pro	Pro
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Glu	Ser	Arg	Val	Ser	Gln	Gly	Lys	Ser	Glu	Lys	Ala			
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<210> 91
 <211> 1860
 <212> DNA
 <213> Homo sapiens

<220>
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 <223> Incyte ID No: 343502.10

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<210> 92
 <211> 1711
 <212> DNA
 <213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1635966CB1

<400> 92

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<210> 93

<211> 300

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1635966CD1

<400> 93

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          20          25          30
Arg Lys Ser Val Thr Gly Glu Ile Val Leu Ile Thr Gly Ala Gly
          35          40          45
His Gly Ile Val Arg Leu Thr Ala Tyr Glu Phe Ala Lys Leu Lys
          50          55          60
Ser Lys Leu Val Leu Trp Asp Ile Asn Lys His Gly Leu Glu Glu
          65          70          75
Thr Ala Ala Lys Cys Lys Gly Leu Gly Ala Lys Val His Thr Phe
          80          85          90
Val Val Asp Cys Ser Asn Arg Glu Asp Ile Tyr Ser Ser Ala Lys
          95          100          105
Lys Val Lys Ala Glu Ile Gly Asp Val Ser Ile Leu Val Asn Asn
          110          115          120
Ala Gly Val Val Tyr Thr Ser Asp Leu Phe Ala Thr Gln Asp Pro
          125          130          135
Gln Ile Glu Lys Thr Phe Glu Val Asn Val Leu Ala His Phe Trp
          140          145          150
Thr Thr Lys Ala Phe Leu Pro Ala Met Thr Lys Asn Asn His Gly

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His Ile Val Thr	Val Ala Ser Ala Ala	Gly His Val Ser Val	Pro		
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Phe Leu Leu Ala	Tyr Cys Ser Ser Lys	Phe Ala Ala Val Gly	Phe		
	185		190		195
His Lys Thr Leu	Thr Asp Glu Leu Ala	Ala Leu Gln Ile Thr	Gly		
	200		205		210
Val Lys Thr Thr	Cys Leu Cys Pro Asn	Phe Val Asn Thr Gly	Phe		
	215		220		225
Ile Lys Asn Pro	Ser Thr Ser Leu Gly	Pro Thr Leu Glu Pro	Glu		
	230		235		240
Glu Val Val Asn	Arg Leu Met His Gly	Ile Leu Thr Glu Gln	Lys		
	245		250		255
Met Ile Phe Ile	Pro Ser Ser Ile Ala	Phe Leu Thr Thr Leu	Glu		
	260		265		270
Arg Ile Leu Pro	Glu Arg Phe Leu Ala	Val Leu Lys Arg Lys	Ile		
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Ser Val Lys Phe	Asp Ala Val Ile Gly	Tyr Lys Met Lys Ala	Gln		
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<210> 94
 <211> 2361
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2054053CB1

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<210> 95
 <211> 247
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2054053CD1

<400> 95

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Gly	Leu	Glu	Glu	Gln	Leu	Arg	Ala	Val	Arg	Met	Pro	Ser	Pro	Phe
				20					25					30
Arg	Ser	Ser	Ala	Leu	Met	Gly	Met	Cys	Gly	Ser	Arg	Ser	Ala	Asp
				35					40					45
Asn	Leu	Ser	Cys	Pro	Ser	Pro	Leu	Asn	Val	Met	Glu	Pro	Val	Thr
				50					55					60
Glu	Leu	Met	Gln	Glu	Gln	Ser	Tyr	Leu	Lys	Ser	Glu	Leu	Gly	Leu
				65					70					75
Gly	Leu	Gly	Glu	Met	Gly	Phe	Glu	Ile	Pro	Pro	Gly	Glu	Ser	Ser
				80					85					90
Glu	Ser	Val	Phe	Ser	Gln	Ala	Thr	Ser	Glu	Ser	Ser	Ser	Val	Cys
				95					100					105
Ser	Gly	Pro	Ser	His	Ala	Asn	Arg	Arg	Thr	Gly	Val	Pro	Ser	Thr
				110					115					120
Ala	Ser	Val	Gly	Lys	Ser	Lys	Thr	Pro	Leu	Val	Ala	Arg	Lys	Lys
				125					130					135
Val	Phe	Arg	Ala	Ser	Val	Ala	Leu	Thr	Pro	Thr	Ala	Pro	Ser	Arg
				140					145					150
Thr	Gly	Ser	Val	Gln	Thr	Pro	Pro	Asp	Leu	Glu	Ser	Ser	Glu	Glu
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Val	Asp	Ala	Ala	Glu	Gly	Ala	Pro	Glu	Val	Val	Gly	Pro	Lys	Ser
				170					175					180
Glu	Val	Glu	Glu	Gly	His	Gly	Lys	Leu	Pro	Ser	Met	Pro	Ala	Ala
				185					190					195
Glu	Glu	Met	His	Lys	Asn	Val	Glu	Gln	Asp	Glu	Leu	Gln	Gln	Val
				200					205					210
Ile	Arg	Glu	Ile	Lys	Glu	Ser	Ile	Val	Gly	Glu	Ile	Arg	Arg	Glu
				215					220					225
Ile	Val	Ser	Gly	Leu	Leu	Ala	Ala	Val	Ser	Ser	Ser	Lys	Ala	Ser
				230					235					240
Asn	Ser	Lys	Gln	Asp	Tyr	His								
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<210> 96
 <211> 3098
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 096954.5

<400> 96

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<210> 97

<211> 860

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1422432CB1

<220>

<221> unsure

<222> 205

<223> a, t, c, g, or other

<400> 97

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<210> 98
 <211> 95
 <212> PRT
 <213> Homo sapiens

<220>
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 <223> Incyte ID No: 1422432CD1

<400> 98

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Ser	Arg	Tyr	Ser	Gly	Ser	Glu	Gly	Ser	Thr	Gln	Thr	Leu	Thr	Lys
				20					25					30
Gly	Glu	Leu	Lys	Val	Leu	Met	Glu	Lys	Glu	Leu	Pro	Gly	Phe	Leu
				35					40					45
Gln	Ser	Gly	Lys	Asp	Lys	Asp	Ala	Val	Asp	Lys	Leu	Leu	Lys	Asp
				50					55					60
Leu	Asp	Ala	Asn	Gly	Asp	Ala	Gln	Val	Asp	Phe	Ser	Glu	Phe	Ile
				65					70					75
Val	Phe	Val	Ala	Ala	Ile	Thr	Ser	Ala	Cys	His	Lys	Tyr	Phe	Glu
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Lys	Ala	Gly	Leu	Lys										
				95										

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 <211> 1498
 <212> DNA
 <213> Homo sapiens

<220>
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 <223> Incyte ID No: 409895.2

<400> 99

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tgaaatggcc	gcagggtatt	gcgacatggc	cataccacta	tttgtttgct	attgaatttg	300
tacttccctg	ccttactttt	gctattgcaa	accatgctgt	cactaaggtc	ttcatgcaca	360
cagttgtgtc	ttggtcagat	gatatgtttc	taccaatttt	aattgtgttt	ctttccacct	420
gggacacaca	gctctctggg	ccccagggtc	gggtcatcag	cacaccctgc	tgctgtgtgt	480
cagatctgca	tctctgtccc	gcttggctcc	acagtgagaa	cgctttgcta	tcacatgggc	540
aggctctgag	agccctgccc	gcctggcctt	ctcaaagaag	acctgagagc	ttgggaccca	600
agcagagagg	aagaacaggg	ctcagggtgc	ttgtctccatg	ctcgctccac	acctggggct	660
caaccctggc	tttcccggc	tcctgtgtgt	acttcagggc	aggteccctg	ggccctctgg	720
gccttatcat	cttcatctgt	aacagggcga	tgctctgtcc	gtgtctgtgt	gtgttgagga	780
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aaagcacttt	acaaatccaa	agacaacccc	cggcaaaaac	tcaaaatgaa	actccctctc	960
gcagagcaca	attccaattc	gctctaaaaa	cattacaagt	tagttcatgt	catgccagat	1020
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tggccctggc cctgagcctg aatgacagca aaggtgacgc agatgtgggt gccctgctcc 1140
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<210> 100

<211> 1138

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 4874364CB1

<400> 100

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ctggtattaa aatgctttcc ccaaaagata ttctgcgaaa agatctgaag ttggtccatg 180
gttatcccat gacctgtgct tttgcgagca actgggaaaa aattgaacag ttccatagca 240
gaccagatga cattgtgata gccacttatc ctaaatacagg tactacttgg gttagtga 300
ttatagacat gattctaaat gatggagata ttgaaaaatg taagcgaggt tttattactg 360
aaaaagttcc aatgttgga atgactctcc ctggattaag aacatcaggt atagaacaat 420
tggaagaaga tccatcacc cggattgtga aaacacatct accgactgat cttcttcc 480
aatctttctg ggaaaacaat tgcaagatga tttatctggc tcgtaatgcc aaggatgttt 540
cagtctcata ttaccathtt gacttaatga ataatttaca gccttttcc 600
aagaatatct ggagaaattc ttaactggaa aagtggccta tggttccctg tttactcatg 660
ttaaaaactg gtggaagaaa aaggaaggac acccaatac tttttgtac tatgaagata 720
tgaaagagaa tccaaaggag gaaatcaaga agatcattag atttctagag aagaacctga 780
atgatgagat cttggatagg atcatccatc acacctcatt tgaagtgatg aaggacaatc 840
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tgcgtaaagg gacggctggg gactggaaga attacttcac cgtggcccaa aatgagaaat 960
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<210> 101

<211> 296

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 4874364CD1

<400> 101

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20 25 30
Ile Glu Gln Phe His Ser Arg Pro Asp Asp Ile Val Ile Ala Thr
35 40 45
Tyr Pro Lys Ser Gly Thr Thr Trp Val Ser Glu Ile Ile Asp Met
50 55 60
Ile Leu Asn Asp Gly Asp Ile Glu Lys Cys Lys Arg Gly Phe Ile
65 70 75
Thr Glu Lys Val Pro Met Leu Glu Met Thr Leu Pro Gly Leu Arg
80 85 90
Thr Ser Gly Ile Glu Gln Leu Glu Lys Asn Pro Ser Pro Arg Ile
95 100 105
Val Lys Thr His Leu Pro Thr Asp Leu Leu Pro Lys Ser Phe Trp
110 115 120
Glu Asn Asn Cys Lys Met Ile Tyr Leu Ala Arg Asn Ala Lys Asp
125 130 135

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Val Ser Val Ser Tyr Tyr His Phe Asp Leu Met Asn Asn Leu Gln
140 145 150
Pro Phe Pro Gly Thr Trp Glu Glu Tyr Leu Glu Lys Phe Leu Thr
155 160 165
Gly Lys Val Ala Tyr Gly Ser Trp Phe Thr His Val Lys Asn Trp
170 175 180
Trp Lys Lys Lys Glu Gly His Pro Ile Leu Phe Leu Tyr Tyr Glu
185 190 195
Asp Met Lys Glu Asn Pro Lys Glu Glu Ile Lys Lys Ile Ile Arg
200 205 210
Phe Leu Glu Lys Asn Leu Asn Asp Glu Ile Leu Asp Arg Ile Ile
215 220 225
His His Thr Ser Phe Glu Val Met Lys Asp Asn Pro Leu Val Asn
230 235 240
Tyr Thr His Leu Pro Thr Thr Val Met Asp His Ser Lys Ser Pro
245 250 255
Phe Met Arg Lys Gly Thr Ala Gly Asp Trp Lys Asn Tyr Phe Thr
260 265 270
Val Ala Gln Asn Glu Lys Phe Asp Ala Ile Tyr Glu Thr Glu Met
275 280 285
Ser Lys Thr Ala Leu Gln Phe Arg Thr Glu Ile
290 295

<210> 102
<211> 507
<212> DNA
<213> Homo sapiens

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<221> misc_feature
<223> Incyte ID No: 239568.4

<220>
<221> unsure
<222> 495
<223> a, t, c, g, or other

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ggtcctgaac aatggagcaa gctgtatccc attgccaatg gaaataacca gtcccctggt 180
gatattaaaa ccagtgaaac caaacatgac acctctctga aacctattag tgtctctac 240
aaccagcca cagccaaaga aattatcaat gtggggcatt ccttccatgt aaattttgag 300
gacaacgata accgatcagt gctgaaagggt ggtcctttct ctgacagcta caggctcttt 360
cagttccatt ttcactgggg cagtacaaat gagcatgggt cagaacatac agtgggatgga 420
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gctgaagctg cctcnaaggc tgatggt 507

<210> 103
<211> 494
<212> DNA
<213> Homo sapiens

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<223> Incyte ID No: 255041.1

<220>
<221> unsure
<222> 336, 458
<223> a, t, c, g, or other

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caagatgttg cctgtttcct ttctgaaagt ttgctaaaac aggaaagaag gagaaaaggg 120
attagttaca taaaaggctt gaagctggaa tgaccaaaag atagaattcc ttcagttaat 180

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tccagcatga agaggttgat acagaggatt tccttctctc tgtgacaaaa catattttta 240
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gaaatattct tagtcaaata cttaaaaaca aggaanaata aaaaataatg taaaaccata 360
tgggtttatg tgaaatacat tattctattc acaagtggca catgcacaaa aattactgag 420
ctgtgtttca cactttatac attgacccaa tattaagnca tccgttcaca atattaatac 480
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494

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<210> 104

<211> 2147

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2555628CB1

<400> 104

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gagagagaga gagaagggcg cctcagaggt gactttcagc ctgcgagcct tcttcccggg 180
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atgtctcaag atggtgtctt tcagttccaa gaagtcattc ggcaagagct agaattatct 300
gtgaagaagg aactagaaaa aatactcacc acagcatcat cacatgaatt tgagcacacc 360
aaaaaagacc tggatggatt tcggaagcta tttcatagat ttttgcaaga aaaggggcct 420
tctgtggatt ggggaaaaat ccagagaccc cctgaagatt cgattcaacc ctatgaaaag 480
ataaaggcca ggggcttgcc tgataatata tcttccgtgt tgaacaaact agtgggtgtg 540
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gtgaggaatg agaatacctt tctggatctg actgttcagc aaattgaaca tttgaataaa 660
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gatttcaaaa ataaagcagt gaagcaatac ttgtgtacac tgggtacttta taatgctaac 2100
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<210> 105

<211> 497

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2555628CD1

<400> 105

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 Thr Ala Ser Ser His Glu Phe Glu His Thr Lys Lys Asp Leu Asp
 35 40 45
 Gly Phe Arg Lys Leu Phe His Arg Phe Leu Gln Glu Lys Gly Pro
 50 55 60
 Ser Val Asp Trp Gly Lys Ile Gln Arg Pro Pro Glu Asp Ser Ile
 65 70 75
 Gln Pro Tyr Glu Lys Ile Lys Ala Arg Gly Leu Pro Asp Asn Ile
 80 85 90
 Ser Ser Val Leu Asn Lys Leu Val Val Val Lys Leu Asn Gly Gly
 95 100 105
 Leu Gly Thr Ser Met Gly Cys Lys Gly Pro Lys Ser Leu Ile Gly
 110 115 120
 Val Arg Asn Glu Asn Thr Phe Leu Asp Leu Thr Val Gln Gln Ile
 125 130 135
 Glu His Leu Asn Lys Thr Tyr Asn Thr Asp Val Pro Leu Val Leu
 140 145 150
 Met Asn Ser Phe Asn Thr Asp Glu Asp Thr Lys Lys Ile Leu Gln
 155 160 165
 Lys Tyr Asn His Cys Arg Val Lys Ile Tyr Thr Phe Asn Gln Ser
 170 175 180
 Arg Tyr Pro Arg Ile Asn Lys Glu Ser Leu Leu Pro Val Ala Lys
 185 190 195
 Asp Val Ser Tyr Ser Gly Glu Asn Thr Glu Ala Trp Tyr Pro Pro
 200 205 210
 Gly His Gly Asp Ile Tyr Ala Ser Phe Tyr Asn Ser Gly Leu Leu
 215 220 225
 Asp Thr Phe Ile Gly Glu Gly Lys Glu Tyr Ile Phe Val Ser Asn
 230 235 240
 Ile Asp Asn Leu Gly Ala Thr Val Asp Leu Tyr Ile Leu Asn His
 245 250 255
 Leu Met Asn Pro Pro Asn Gly Lys Arg Cys Glu Phe Val Met Glu
 260 265 270
 Val Thr Asn Lys Thr Arg Ala Asp Val Lys Gly Gly Thr Leu Thr
 275 280 285
 Gln Tyr Glu Gly Lys Leu Arg Leu Val Glu Ile Ala Gln Val Pro
 290 295 300
 Lys Ala His Val Asp Glu Phe Lys Ser Val Ser Lys Phe Lys Ile
 305 310 315
 Phe Asn Thr Asn Asn Leu Trp Ile Ser Leu Ala Ala Val Lys Arg
 320 325 330
 Leu Gln Glu Gln Asn Ala Ile Asp Met Glu Ile Ile Val Asn Ala
 335 340 345
 Lys Thr Leu Asp Gly Gly Leu Asn Val Ile Gln Leu Glu Thr Ala
 350 355 360
 Val Gly Ala Ala Ile Lys Ser Phe Glu Asn Ser Leu Gly Ile Asn
 365 370 375
 Val Pro Arg Ser Arg Phe Leu Pro Val Lys Thr Thr Ser Asp Leu
 380 385 390
 Leu Leu Val Met Ser Asn Leu Tyr Ser Leu Asn Ala Gly Ser Leu
 395 400 405
 Thr Met Ser Glu Lys Arg Glu Phe Pro Thr Val Pro Leu Val Lys
 410 415 420
 Leu Gly Ser Ser Phe Thr Lys Val Gln Asp Tyr Leu Arg Arg Phe
 425 430 435
 Glu Ser Ile Pro Asp Met Leu Glu Leu Asp His Leu Thr Val Ser
 440 445 450
 Gly Asp Val Thr Phe Gly Lys Asn Val Ser Leu Lys Gly Thr Val
 455 460 465
 Ile Ile Ile Ala Asn His Gly Asp Arg Ile Asp Ile Pro Pro Gly
 470 475 480
 Ala Val Leu Glu Asn Lys Ile Val Ser Gly Asn Leu Arg Ile Leu
 485 490 495
 Asp His

PA-0038 US

<210> 106
<211> 706
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 255803.1

<220>
<221> unsure
<222> 136
<223> a, t, c, g, or other

<400> 106
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gcaggacatg gcgtanagct gcatgagtac caggaatgac gaacatcagg ctggccctgg 180
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caactgtggc agctcctcct agtctgcccc tcccgtggct gccacagact ccaggaggga 540
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<210> 107
<211> 1589
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 900341CB1

<400> 107
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gcggagcggg tggcgggcgg cccctcagg acaccaccag attccccctt tcccgcggcc 360
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ctgaccttgg caaagctgcc agagatatct tcaacaaagg atttggtttt gggttggtga 480
aactggatgt gaaaacaaag tcttgcagtg gctgtggaatt ttcaacgtcc ggttcactta 540
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tatgttcctt tagaaaacat tgactgttt 1589

PA-0038 US

<210> 108
<211> 294
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 900341CD1

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20 25 30
Lys Gly Phe Gly Phe Gly Leu Val Lys Leu Asp Val Lys Thr Lys
35 40 45
Ser Cys Ser Gly Val Glu Phe Ser Thr Ser Gly Ser Ser Asn Thr
50 55 60
Asp Thr Gly Lys Val Thr Gly Thr Leu Glu Thr Lys Tyr Lys Trp
65 70 75
Cys Glu Tyr Gly Leu Thr Phe Thr Glu Lys Trp Asn Thr Asp Asn
80 85 90
Thr Leu Gly Thr Glu Ile Ala Ile Glu Asp Gln Ile Cys Gln Gly
95 100 105
Leu Lys Leu Thr Phe Asp Thr Thr Phe Ser Pro Asn Thr Gly Lys
110 115 120
Lys Ser Gly Lys Ile Lys Ser Ser Tyr Lys Arg Glu Cys Ile Asn
125 130 135
Leu Gly Cys Asp Val Asp Phe Asp Phe Ala Gly Pro Ala Ile His
140 145 150
Gly Ser Ala Val Phe Gly Tyr Glu Gly Trp Leu Ala Gly Tyr Gln
155 160 165
Met Thr Phe Asp Ser Ala Lys Ser Lys Leu Thr Arg Asn Asn Phe
170 175 180
Ala Val Gly Tyr Arg Thr Gly Asp Phe Gln Leu His Thr Asn Val
185 190 195
Asn Asp Gly Thr Glu Phe Gly Gly Ser Ile Tyr Gln Lys Val Cys
200 205 210
Glu Asp Leu Asp Thr Ser Val Asn Leu Ala Trp Thr Ser Gly Thr
215 220 225
Asn Cys Thr Arg Phe Gly Ile Ala Ala Lys Tyr Gln Leu Asp Pro
230 235 240
Thr Ala Ser Ile Ser Ala Lys Val Asn Asn Ser Ser Leu Ile Gly
245 250 255
Val Gly Tyr Thr Gln Thr Leu Arg Pro Gly Val Lys Leu Thr Leu
260 265 270
Ser Ala Leu Val Asp Gly Lys Ser Ile Asn Ala Gly Gly His Lys
275 280 285
Val Gly Leu Ala Leu Glu Leu Glu Ala
290

<210> 109
<211> 1870
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 273879CB1

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agccattgca cccagccgat actactatat cccattttta cagatgagca catgggcaaa 180
ttgagggtaa ggcactgacc catgatcata cagctgagaa gtggcaaagg caggatttga 240
acctagaacc tctggctcca cacactagta atctaaacca ctctccctac aataacaat 300


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acgtggtaaa gatgtgtggt gggcacgcaa tcaacgtagg tcccttcaca gttgctggga 360
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gcagggtttt atgggctctg ataaggccct ggcagggccg aagttcatga gcacttcctc 540
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aagctggcaa ggggaaggag actagggtgc gctctaggag aagccgacag cctgagagtc 660
ccagaagagg agccctgtgg accctcccct gccagccact cccttaccct ggggtataaga 720
gccaccaccg cctgccatcc gccaccatct cccactcctg cagctcttct cacaggacca 780
gccactagcg cagcctcgag cgatggccta tgtccccgca cggggctacc agccccaccta 840
caaccgcagc ctgccttact accagcccat ccggggcggg ctcaacgtgg gaatgtctgt 900
ttacatccaa ggagtggcca gcgagcacat gaagcggttc ttctggaact ttgtggttgg 960
gcaggatccg ggctcagacg tcgccttcca cttcaatccg cggtttgacg gctggggacaa 1020
ggtggtcttc aacacgttgc agggcgggaa gtggggcagc gaggagagga agaggagcat 1080
gcccttcaaa aagggtgccg cctttgagct ggtcttcata gtcctgggtg agcactacaa 1140
ggtggtggta aatggaaatc ccttctatga gtacgggcac cggcttcccc tacagatggt 1200
caccacactg caagtggatg gggatctgca acttcaatca atcaacttca tcggaggcca 1260
gcccctccgg ccccagggac ccccgatgat gccaccttac cctgggtccc gacattgcca 1320
tcaacagctg aacagcctgc ccaccatgga aggaccccca accttcaacc cgctgtgcc 1380
atatttcggg aggtcgcaag gagggctcac agctcgaaga accatcatca tcaagggcta 1440
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agctctgcac attaatcccc gcatgggcaa cggtagcgtg gtccggaaca gccttctgaa 1560
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aaaaaaaaa 1870

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<210> 110

<211> 323

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 273879CD1

<400> 110

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Met Ala Tyr Val Pro Ala Pro Gly Tyr Gln Pro Thr Tyr Asn Pro
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Thr Leu Pro Tyr Tyr Gln Pro Ile Pro Gly Gly Leu Asn Val Gly
          20          25          30
Met Ser Val Tyr Ile Gln Gly Val Ala Ser Glu His Met Lys Arg
          35          40          45
Phe Phe Val Asn Phe Val Val Gly Gln Asp Pro Gly Ser Asp Val
          50          55          60
Ala Phe His Phe Asn Pro Arg Phe Asp Gly Trp Asp Lys Val Val
          65          70          75
Phe Asn Thr Leu Gln Gly Gly Lys Trp Gly Ser Glu Glu Arg Lys
          80          85          90
Arg Ser Met Pro Phe Lys Lys Gly Ala Ala Phe Glu Leu Val Phe
          95          100          105
Ile Val Leu Ala Glu His Tyr Lys Val Val Val Asn Gly Asn Pro
          110          115          120
Phe Tyr Glu Tyr Gly His Arg Leu Pro Leu Gln Met Val Thr His
          125          130          135
Leu Gln Val Asp Gly Asp Leu Gln Leu Gln Ser Ile Asn Phe Ile
          140          145          150
Gly Gly Gln Pro Leu Arg Pro Gln Gly Pro Pro Met Met Pro Pro
          155          160          165
Tyr Pro Gly Pro Gly His Cys His Gln Gln Leu Asn Ser Leu Pro
          170          175          180
Thr Met Glu Gly Pro Pro Thr Phe Asn Pro Pro Val Pro Tyr Phe
          185          190          195
Gly Arg Leu Gln Gly Gly Leu Thr Ala Arg Arg Thr Ile Ile Ile
          200          205          210

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Lys	Gly	Tyr	Val	Pro	Pro	Thr	Gly	Lys	Ser	Phe	Ala	Ile	Asn	Phe
				215					220					225
Lys	Val	Gly	Ser	Ser	Gly	Asp	Ile	Ala	Leu	His	Ile	Asn	Pro	Arg
				230					235					240
Met	Gly	Asn	Gly	Thr	Val	Val	Arg	Asn	Ser	Leu	Leu	Asn	Gly	Ser
				245					250					255
Trp	Gly	Ser	Glu	Glu	Lys	Lys	Ile	Thr	His	Asn	Pro	Phe	Gly	Pro
				260					265					270
Gly	Gln	Phe	Phe	Asp	Leu	Ser	Ile	Arg	Cys	Gly	Leu	Asp	Arg	Phe
				275					280					285
Lys	Val	Tyr	Ala	Asn	Gly	Gln	His	Leu	Phe	Asp	Phe	Ala	His	Arg
				290					295					300
Leu	Ser	Ala	Phe	Gln	Arg	Val	Asp	Thr	Leu	Glu	Ile	Gln	Gly	Asp
				305					310					315
Val	Thr	Leu	Ser	Tyr	Val	Gln	Ile							
				320										

<210> 111
 <211> 1137
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 141804.1

<220>
 <221> unsure
 <222> 1047
 <223> a, t, c, g, or other

<400> 111
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 aagaagagga aatgatggat gagggtaaaa acttcagttt cagaaattga agacttagaa 180
 aaggaaggaa ccatgcctct agaagattta ctggcattct atggctatga acctacaatt 240
 ccagcagttg caaattccag tgcaaatagt tcccaagtg aactggcaga tgaactacca 300
 gacatgacac tagacaaaga ggaaatagca aaagacctgt tgtcagggtga tgacgaggaa 360
 actcagtcct ctgcggatga tctgacgcca tctgtgactt cccatgaaac ttctgatttc 420
 ttccctaggc ctttacgatc aaatactgca tgtgatgggt ataaggaatc agaggttgaa 480
 gatgttgaaa cagacagtgg taattcaoct gaagatttga ggaaggaaat aatgattggt 540
 ttacaatatc aggcagagat tcccccttat cttggagagt acgatggtaa tgagaaagta 600
 tatgaaaacg aagaccagtt actttgggtg cctgatgtgg ttttgagag caaagttaag 660
 gaataccttg ttgagacttc attaaggact ggcagtgaaa aaataatgga taggatttct 720
 gcaggaacac acacaaggga caatgaacag gcattatatg aacttctcaa gtgtaaccac 780
 aatataaagg aagcaatcga aagatactgc tgcaatggaa aggctctca agaaggaatg 840
 actgcatgga cggaagaaga atgccgaagc tttgaacatg cactcatgct ttttggaana 900
 gattttcatc ttatacagaa gaataaggta aattaggcag attagtacag ataaattact 960
 agttacagtg aatgtaagca actaatttat aagtcactta agtaggaaaa aagaacaact 1020
 tactaatgtt cccttgccaa tagcatntca gatatcattc taacatgcac taatttgctc 1080
 agagatgcca cagcctgctt atggaatggc tgatagtata ttcacatata ttttcac 1137

<210> 112
 <211> 1450
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2512879CB1

<400> 112
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 gacagaatca acatgagcac agcaggaaaa gtaatcaaat gcaaagcagc tgtgctatgg 120
 gagttaaaga aacccttttc cattgaggag gtggaggttg cacctcttaa ggcccatgaa 180
 gttcgtatta agatggtggc tgtaggaatc tgtggcacag atgaccacgt ggtagtggt 240

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accatggtga cccacttcc tgtgatttta ggccatgagg cagccggcat cgtggagagt 300
gttggagaag gggtgactac agtcaaacca ggtgataaag tcatccact cgctattcct 360
cagtgtggaa aatgcagaat ttgtaaaaac ccggagagca actactgctt gaaaaacgat 420
gtaagcaatc ctcaggggac cctgcaggat ggcaccagca gggtcacctg caggaggaag 480
cccatccacc acttccttgg catcagcacc ttctcacagt acacagtggg ggatgaaaaat 540
gcagtagcca aaattgatgc agcctcgctt ctagagaaag tctgtctcat tggctgtgga 600
ttttcaactg gttatgggtc tgcagtcaat gttgccaagg tcacccagg ctctacctgt 660
gctgtgtttg gcctgggagg ggtcggccta tctgctatta tgggtgttaa agcagctggg 720
gcagccagaa tcattgcggg ggacatcaac aaggacaaat ttgcaaaggc caaagagttg 780
ggtgccactg aatgcatcaa ccctcaagac tacaagaaac ccattccagga ggtgctaaag 840
gaaatgactg atggaggtgt ggatttttca tttgaagtca tcggtcggct tgacaccatg 900
atggcttccc tgttatgttg tcatgaggca tgtggcacia gtgtcatcgt aggggtacct 960
cctgattccc aaaacctctc aatgaaccct atgctgctac tgactggacg tacctggaag 1020
ggagctattc ttggtggctt taaaagtaaa gaatgtgtcc caaaacttgt ggctgatttt 1080
atggctaaga agttttcatt ggatgcatta ataaccatg ttttaccttt tgaaaaaata 1140
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gacaatacag atgttttccc ttgtggcagt cttcagcctc ctctacccta catgatctgg 1260
agcaacagct gggaaatatc attaatcttg ctcatcacag attttatcaa taaattacat 1320
ttgggggctt tccaaagaaa tggaaattga tgtaaaatta tttttcaagc aaatgtttta 1380
aatccaaatg agaactaaat aaagtgttga acatcagctg gggaattgaa gcctataaac 1440
cttccttcta                                     1450

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<210> 113

<211> 375

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2512879CD1

<400> 113

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Met Ser Thr Ala Gly Lys Val Ile Lys Cys Lys Ala Ala Val Leu
  1          5          10          15
Trp Glu Leu Lys Lys Pro Phe Ser Ile Glu Glu Val Glu Val Ala
  20          25          30
Pro Pro Lys Ala His Glu Val Arg Ile Lys Met Val Ala Val Gly
  35          40          45
Ile Cys Gly Thr Asp Asp His Val Val Ser Gly Thr Met Val Thr
  50          55          60
Pro Leu Pro Val Ile Leu Gly His Glu Ala Ala Gly Ile Val Glu
  65          70          75
Ser Val Gly Glu Gly Val Thr Thr Val Lys Pro Gly Asp Lys Val
  80          85          90
Ile Pro Leu Ala Ile Pro Gln Cys Gly Lys Cys Arg Ile Cys Lys
  95          100         105
Asn Pro Glu Ser Asn Tyr Cys Leu Lys Asn Asp Val Ser Asn Pro
  110         115         120
Gln Gly Thr Leu Gln Asp Gly Thr Ser Arg Phe Thr Cys Arg Arg
  125         130         135
Lys Pro Ile His His Phe Leu Gly Ile Ser Thr Phe Ser Gln Tyr
  140         145         150
Thr Val Val Asp Glu Asn Ala Val Ala Lys Ile Asp Ala Ala Ser
  155         160         165
Pro Leu Glu Lys Val Cys Leu Ile Gly Cys Gly Phe Ser Thr Gly
  170         175         180
Tyr Gly Ser Ala Val Asn Val Ala Lys Val Thr Pro Gly Ser Thr
  185         190         195
Cys Ala Val Phe Gly Leu Gly Gly Val Gly Leu Ser Ala Ile Met
  200         205         210
Gly Cys Lys Ala Ala Gly Ala Ala Arg Ile Ile Ala Val Asp Ile
  215         220         225
Asn Lys Asp Lys Phe Ala Lys Ala Lys Glu Leu Gly Ala Thr Glu
  230         235         240
Cys Ile Asn Pro Gln Asp Tyr Lys Lys Pro Ile Gln Glu Val Leu
  245         250         255

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Lys Glu Met Thr Asp Gly Gly Val Asp Phe Ser Phe Glu Val Ile
 260 265 270
 Gly Arg Leu Asp Thr Met Met Ala Ser Leu Leu Cys Cys His Glu
 275 280 285
 Ala Cys Gly Thr Ser Val Ile Val Gly Val Pro Pro Asp Ser Gln
 290 295 300
 Asn Leu Ser Met Asn Pro Met Leu Leu Leu Thr Gly Arg Thr Trp
 305 310 315
 Lys Gly Ala Ile Leu Gly Gly Phe Lys Ser Lys Glu Cys Val Pro
 320 325 330
 Lys Leu Val Ala Asp Phe Met Ala Lys Lys Phe Ser Leu Asp Ala
 335 340 345
 Leu Ile Thr His Val Leu Pro Phe Glu Lys Ile Asn Glu Gly Phe
 350 355 360
 Asp Leu Leu His Ser Gly Lys Ser Ile Arg Thr Ile Leu Met Phe
 365 370 375

<210> 114
 <211> 583
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2685676CB1

<400> 114
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 ggagggcggt atccaccttc cactgtactt tggcctctct gggatagaag ttattcagca 120
 ggcacacaaac agaggcagtt ccagatttca actgctcatc agatggcggg aagatgaaga 180
 cagatggtgc agccacagtt cgtttgatct ccagctcgag ccgctgcgtg ttttctctt 240
 gatcggaac tctgtcttct ccttgctctg aaatggaccc caactgctcc tgctgcctg 300
 ttggctcctg tgctgtgccc ggctcctgca aatgcaaaga gtgcaaatgc acctcctgca 360
 agaagagctg ctgctcctgc tgccctgtgg gctgtgccaa gtgtgcccag ggctgcatt 420
 gcaaaggggc atcagagaag tgcagctgct gtgcctgatg tccggacagc cctgctcgaa 480
 gatataaaa gactgacctg cacaacttg gaattttttt tccatacaac cctgccccat 540
 ctactgtatt ttttttaatg aaatatgtga atgataatag tca 583

<210> 115
 <211> 61
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2685676CD1

<400> 115
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 1 5 10 15
 Ala Gly Ser Cys Lys Cys Lys Glu Cys Lys Cys Thr Ser Cys Lys
 20 25 30
 Lys Ser Cys Cys Ser Cys Cys Pro Val Gly Cys Ala Lys Cys Ala
 35 40 45
 Gln Gly Cys Ile Cys Lys Gly Ala Ser Glu Lys Cys Ser Cys Cys
 50 55 60
 Ala

<210> 116
 <211> 1759
 <212> DNA
 <213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2742913CB1

<400> 116

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cgggccgccc acgagcacga agttggcggg agcctataaa agctgggtgcc ggcgcgaccc 180
gcggacacac agtgcaggcg cccaagccgc cgccgccaga tcggtgccga ttccctgcct 240
gccccgaccg ccagcgcgac catgtcccat cactgggggt acggcaaaca caacggacct 300
gagcactggc ataaggactt ccccatgtcc aaggagagc gccagtcccc tggtgacatc 360
gacctcata cagccaagta tgacccttcc ctgaagcccc tgtctgtttc ctatgatcaa 420
gcaacttccc tgaggatcct caacaatggt catgctttca acgtggagtt tgatgactct 480
caggacaaag cagtgtctca gggaggaccc ctggatggca cttacagatt gattcagttt 540
cactttcact ggggttctact tgatggacaa gggtcagagc atactgtgga taaaaagaaa 600
tatgtctcag aacttcactt gggttctact aacaccaa atggggattt tgggaaagct 660
gtgcagcaac ctgatggact ggccgttcta ggtatttttt tgaaggttgg cagcgctaaa 720
ccgggccttc agaaagttgt tgatgtgctg gattccatta aaacaaaggg caagagtgtc 780
gacttcacta acttcgatcc tcgtggcctc cttcctgaat ccttgatta ctggacctac 840
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cccatcagcg tcagcagcga gcagggtgtg aaattccgta aacttaactt caatggggag 960
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ggcaaatcag gtaaaatagt catgattcta tgtaatgtaa accagaaaaa ataaatgttc 1500
atgatttcaa gatgttatat taaagaaaaa ctttaaaaat tattatatat ttatagcaaa 1560
gttatcttaa atatgaattc tggtgttaatt taatgacttt tgaattacag agatataaat 1620
gaagtattat ctgtaaaaaa tgttataatt agagttgtga tacagagtat atttccattc 1680
agacaatata tcataactta ataaatattg tatttttagat atattctcta ataaaattca 1740
gaattctaaa aaaaaaaaaa 1759

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<210> 117

<211> 260

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2742913CD1

<400> 117

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Met Ser His His Trp Gly Tyr Gly Lys His Asn Gly Pro Glu His
  1          5          10          15
Trp His Lys Asp Phe Pro Ile Ala Lys Gly Glu Arg Gln Ser Pro
  20          25          30
Val Asp Ile Asp Thr His Thr Ala Lys Tyr Asp Pro Ser Leu Lys
  35          40          45
Pro Leu Ser Val Ser Tyr Asp Gln Ala Thr Ser Leu Arg Ile Leu
  50          55          60
Asn Asn Gly His Ala Phe Asn Val Glu Phe Asp Asp Ser Gln Asp
  65          70          75
Lys Ala Val Leu Lys Gly Gly Pro Leu Asp Gly Thr Tyr Arg Leu
  80          85          90
Ile Gln Phe His Phe His Trp Gly Ser Leu Asp Gly Gln Gly Ser
  95          100         105
Glu His Thr Val Asp Lys Lys Lys Tyr Ala Ala Glu Leu His Leu
  110         115         120
Val His Trp Asn Thr Lys Tyr Gly Asp Phe Gly Lys Ala Val Gln
  125         130         135
Gln Pro Asp Gly Leu Ala Val Leu Gly Ile Phe Leu Lys Val Gly
  140         145         150
Ser Ala Lys Pro Gly Leu Gln Lys Val Val Asp Val Leu Asp Ser

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	155		160		165
Ile Lys Thr Lys	Gly Lys Ser Ala Asp	Phe Thr Asn Phe Asp	Pro		
	170		175		180
Arg Gly Leu Leu	Pro Glu Ser Leu Asp	Tyr Trp Thr Tyr Pro	Gly		
	185		190		195
Ser Leu Thr Thr	Pro Pro Leu Leu Glu	Cys Val Thr Trp Ile	Val		
	200		205		210
Leu Lys Glu Pro	Ile Ser Val Ser Ser	Glu Gln Val Leu Lys	Phe		
	215		220		225
Arg Lys Leu Asn	Phe Asn Gly Glu Gly	Glu Pro Glu Glu Leu	Met		
	230		235		240
Val Asp Asn Trp	Arg Pro Ala Gln Pro	Leu Lys Asn Arg Gln	Ile		
	245		250		255
Lys Ala Ser Phe	Lys				
	260				

<210> 118
 <211> 508
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 429183.1

<220>
 <221> unsure
 <222> 265, 290, 331-332, 356, 470
 <223> a, t, c, g, or other

<400> 118
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 agggccagct tgacgttcat cagctcctag tactcacgca gctgccgcgc catgtcctgc 120
 ttggccggct ggagggcggc ctccagctcg gacagcttgg cgttggcacc cttactgcc 180
 cagctcctca ggctgctcgg catctgtgat ggcggcctcc agggaagccc tctggccttt 240
 gaggcactca gtctcagcct ggagnccact gatgttccag ttcactctcgn aggtctcagt 300
 ctttgtatgc tgcacgtcat ccccggtgctt nncagacagc gtctggagct cctcanactt 360
 gatctggtac atgctctcaa cctcagccca gctgcggtta gcatctcct agtactgcgc 420
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 gacgtgtccg agatctgggt ctgcagct 508

<210> 119
 <211> 442
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2757583CB1

<400> 119
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 gctcctgcgc cgctggtgtc tctgcacct gcgctggttc ctgcaagtgc aaagagtgc 180
 aatgcacctc ctgcaagaag agctgctgct cctgctgccc cgtgggctgt agcaagtgtg 240
 cccagggtcg tgtttgcaaa ggggcgtcag agaagtgcag ctgctgcgac tgatgccagg 300
 acaacctttc tcccagatgt aaacagagag acatgtacaa acctggattt tttttttata 360
 ccaccttgac ccatttgcta cattcctttt cctgtgaaat atgtgagtga taattaaaca 420
 ctttagacct gaaaaaaaaa aa 442

<210> 120
 <211> 61
 <212> PRT
 <213> Homo sapiens

<220>


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gcgagggttaa tgccatcagc accgcctgct ccaacggagt tccagagtgt gaggagatgg 2640
tctctggcctt tttcaagcag tggatggaga accccaataa taacccgatc caccccaacc 2700
tgcggtccac tgtctactgc aacgctatcg cccaggggcg ggaggaggag tgggacttcg 2760
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tggcctgcag caaagagttg tggatcctga acaggtacct gagctacacc ctgaaccocg 2880
acttaatccg gaagcaggac gccacctcta ccatcatcag cattaccaac aacgtcattg 2940
ggcaagggtct ggtctgggac tttgtccaga gcaactggaa gaagcttttt aacgattatg 3000
gtggtggctc gttctccttc tccaacctca tccaggcagt gacacgacga ttctccaccg 3060
agtatgagct gcagcagctg gagcagttca agaaggacaa cgaggaaaca ggcttcggct 3120
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ttgaagtcac ccggccccga tgcaaggtgc ccacatgtgt ccatcccagc ggctggtgca 3300
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gatggacaat gaacggcctt gctggggggc gccctgtacc ctctttcacc ttccctaaa 3600
gaccctaaat ctgaggaatc aacagggcag cagatctgta tatttttttc taagagaaaa 3660
tgtaaataaa tgatttctag atgaga 3686

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<210> 122

<211> 969

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1344279CD1

<400> 122

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Met Ala Lys Gly Phe Tyr Ile Ser Lys Ser Leu Gly Ile Leu Gly
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Ile Leu Leu Gly Val Ala Ala Val Cys Thr Ile Ile Ala Leu Ser
          20          25          30
Val Val Tyr Ser Gln Glu Lys Asn Lys Asn Ala Asn Ser Ser Pro
          35          40          45
Val Ala Ser Thr Thr Pro Ser Ala Ser Ala Thr Thr Asn Pro Ala
          50          55          60
Ser Ala Thr Thr Leu Asp Gln Ser Lys Ala Trp Asn Arg Tyr Arg
          65          70          75
Leu Pro Asn Thr Leu Lys Pro Asp Ser Tyr Gln Val Thr Leu Arg
          80          85          90
Pro Tyr Leu Thr Pro Asn Asp Arg Gly Leu Tyr Val Phe Lys Gly
          95          100          105
Ser Ser Thr Val Arg Phe Thr Cys Lys Glu Ala Thr Asp Val Ile
          110          115          120
Ile Ile His Ser Lys Lys Leu Asn Tyr Thr Leu Ser Gln Gly His
          125          130          135
Arg Val Val Leu Arg Gly Val Gly Gly Ser Gln Pro Pro Asp Ile
          140          145          150
Asp Lys Thr Glu Leu Val Glu Pro Thr Glu Tyr Leu Val Val His
          155          160          165
Leu Lys Gly Ser Leu Val Lys Asp Ser Gln Tyr Glu Met Asp Ser
          170          175          180
Glu Phe Glu Gly Glu Leu Ala Asp Asp Leu Ala Gly Phe Tyr Arg
          185          190          195
Ser Glu Tyr Met Glu Gly Asn Val Arg Lys Val Val Ala Thr Thr
          200          205          210
Gln Met Gln Ala Ala Asp Ala Arg Lys Ser Phe Pro Cys Phe Asp
          215          220          225
Glu Pro Ala Met Lys Ala Glu Phe Asn Ile Thr Leu Ile His Pro
          230          235          240
Lys Asp Leu Thr Ala Leu Ser Asn Met Leu Pro Lys Gly Pro Ser
          245          250          255

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Thr	Pro	Leu	Pro	Glu	Asp	Pro	Asn	Trp	Asn	Val	Thr	Glu	Phe	His
				260					265					270
Thr	Thr	Pro	Lys	Met	Ser	Thr	Tyr	Leu	Leu	Ala	Phe	Ile	Val	Ser
				275					280					285
Glu	Phe	Asp	Tyr	Val	Glu	Lys	Gln	Ala	Ser	Asn	Gly	Val	Leu	Ile
				290					295					300
Arg	Ile	Trp	Ala	Arg	Pro	Ser	Ala	Ile	Ala	Ala	Gly	His	Gly	Asp
				305					310					315
Tyr	Ala	Leu	Asn	Val	Thr	Gly	Pro	Ile	Leu	Asn	Phe	Phe	Ala	Gly
				320					325					330
His	Tyr	Asp	Thr	Pro	Tyr	Pro	Leu	Pro	Lys	Ser	Asp	Gln	Ile	Gly
				335					340					345
Leu	Pro	Asp	Phe	Asn	Ala	Gly	Ala	Met	Glu	Asn	Trp	Gly	Leu	Val
				350					355					360
Thr	Tyr	Arg	Glu	Asn	Ser	Leu	Leu	Phe	Asp	Pro	Leu	Ser	Ser	Ser
				365					370					375
Ser	Ser	Asn	Lys	Glu	Arg	Val	Val	Thr	Val	Ile	Ala	His	Glu	Leu
				380					385					390
Ala	His	Gln	Trp	Phe	Gly	Asn	Leu	Val	Thr	Ile	Glu	Trp	Trp	Asn
				395					400					405
Asp	Leu	Trp	Leu	Asn	Glu	Gly	Phe	Ala	Ser	Tyr	Val	Glu	Tyr	Leu
				410					415					420
Gly	Ala	Asp	Tyr	Ala	Glu	Pro	Thr	Trp	Asn	Leu	Lys	Asp	Leu	Met
				425					430					435
Val	Leu	Asn	Asp	Val	Tyr	Arg	Val	Met	Ala	Val	Asp	Ala	Leu	Ala
				440					445					450
Ser	Ser	His	Pro	Leu	Ser	Thr	Pro	Ala	Ser	Glu	Ile	Asn	Thr	Pro
				455					460					465
Ala	Gln	Ile	Ser	Glu	Leu	Phe	Asp	Ala	Ile	Ser	Tyr	Ser	Lys	Gly
				470					475					480
Ala	Ser	Val	Leu	Arg	Met	Leu	Ser	Ser	Phe	Leu	Ser	Glu	Asp	Val
				485					490					495
Phe	Lys	Gln	Gly	Leu	Ala	Ser	Tyr	Leu	His	Thr	Phe	Ala	Tyr	Gln
				500					505					510
Asn	Thr	Ile	Tyr	Leu	Asn	Leu	Trp	Asp	His	Leu	Gln	Glu	Ala	Val
				515					520					525
Asn	Asn	Arg	Ser	Ile	Gln	Leu	Pro	Thr	Thr	Val	Arg	Asp	Ile	Met
				530					535					540
Asn	Arg	Trp	Thr	Leu	Gln	Met	Gly	Phe	Pro	Val	Ile	Thr	Val	Asp
				545					550					555
Thr	Ser	Thr	Gly	Thr	Leu	Ser	Gln	Glu	His	Phe	Leu	Leu	Asp	Pro
				560					565					570
Asp	Ser	Asn	Val	Thr	Arg	Pro	Ser	Glu	Phe	Asn	Tyr	Val	Trp	Ile
				575					580					585
Val	Pro	Ile	Thr	Ser	Ile	Arg	Asp	Gly	Arg	Gln	Gln	Gln	Asp	Tyr
				590					595					600
Trp	Leu	Ile	Asp	Val	Arg	Ala	Gln	Asn	Asp	Leu	Phe	Ser	Thr	Ser
				605					610					615
Gly	Asn	Glu	Trp	Val	Leu	Leu	Asn	Leu	Asn	Val	Thr	Gly	Tyr	Tyr
				620					625					630
Arg	Val	Asn	Tyr	Asp	Glu	Glu	Asn	Trp	Arg	Lys	Ile	Gln	Thr	Gln
				635					640					645
Leu	Gln	Arg	Asp	His	Ser	Ala	Ile	Pro	Val	Ile	Asn	Arg	Ala	Gln
				650					655					660
Ile	Ile	Asn	Asp	Ala	Phe	Asn	Leu	Ala	Ser	Ala	His	Lys	Val	Pro
				665					670					675
Val	Thr	Leu	Ala	Leu	Asn	Asn	Thr	Leu	Phe	Leu	Ile	Glu	Glu	Arg
				680					685					690
Gln	Tyr	Met	Pro	Trp	Glu	Ala	Ala	Leu	Ser	Ser	Leu	Ser	Tyr	Phe
				695					700					705
Lys	Leu	Lys	Leu	Met	Phe	Asp	Arg	Ser	Glu	Val	Tyr	Gly	Pro	Met
				710					715					720
Lys	Asn	Tyr	Leu	Lys	Lys	Gln	Val	Thr	Pro	Leu	Phe	Ile	His	Phe
				725					730					735
Arg	Asn	Asn	Thr	Asn	Asn	Trp	Arg	Glu	Ile	Pro	Glu	Asn	Leu	Met
				740					745					750

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Asp Gln Tyr Ser Glu Val Asn Ala Ile Ser Thr Ala Cys Ser Asn
 755 760 765
 Gly Val Pro Glu Cys Glu Glu Met Val Ser Gly Leu Phe Lys Gln
 770 775 780
 Trp Met Glu Asn Pro Asn Asn Asn Pro Ile His Pro Asn Leu Arg
 785 790 795
 Ser Thr Val Tyr Cys Asn Ala Ile Ala Gln Gly Gly Glu Glu Glu
 800 805 810
 Trp Asp Phe Ala Trp Glu Gln Phe Arg Asn Ala Thr Leu Val Asn
 815 820 825
 Glu Ala Asp Lys Leu Arg Ala Ala Leu Ala Cys Ser Lys Glu Leu
 830 835 840
 Trp Ile Leu Asn Arg Tyr Leu Ser Tyr Thr Leu Asn Pro Asp Leu
 845 850 855
 Ile Arg Lys Gln Asp Ala Thr Ser Thr Ile Ile Ser Ile Thr Asn
 860 865 870
 Asn Val Ile Gly Gln Gly Leu Val Trp Asp Phe Val Gln Ser Asn
 875 880 885
 Trp Lys Lys Leu Phe Asn Asp Tyr Gly Gly Gly Ser Phe Ser Phe
 890 895 900
 Ser Asn Leu Ile Gln Ala Val Thr Arg Arg Phe Ser Thr Glu Tyr
 905 910 915
 Glu Leu Gln Gln Leu Glu Gln Phe Lys Lys Asp Asn Glu Glu Thr
 920 925 930
 Gly Phe Gly Ser Gly Thr Arg Ala Leu Glu Gln Ala Leu Glu Lys
 935 940 945
 Thr Lys Ala Asn Ile Lys Trp Val Lys Glu Asn Lys Glu Val Val
 950 955 960
 Leu Gln Trp Phe Thr Glu Asn Ser Lys
 965

<210> 123
 <211> 836
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1329472.2

<220>
 <221> unsure
 <222> 479
 <223> a, t, c, g, or other

<400> 123
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 acacagccac cctcggtgtc agtgtcccca ggacaaacgg ccaggatcac ctgctctgga 180
 gatacattgc caaaaaactc tgcttattgg taccagcaga agtcaggcca ggccccgggtg 240
 ctgggtcatct atgaggacac caaacgaccc tccgagatcc ctgagagatt ctctggctcc 300
 agctcaggga caatgccacc ttgactatca gtgggggcca gtggaggatg aagctgacta 360
 ctactgttac tcaacagaca ggggtgttcgg cggaggggacc aaggtgaccg tcctaggtca 420
 gcccaaggct gccccctcgg tcaactctgtt cccaccctcc tctgaggagc ttcaagccna 480
 caaggccaca ctgggtgtgtc tcataagtga cttctaccgg tgagccaccg cgcccagccc 540
 attgtatttt cttaacagac agatattgtc ttcttgacta tcagtggggc ccaggtggag 600
 gatgaagctg actactactg ttactcaaca gacagggtgt tcggcggagg gaccaaggtg 660
 accgtcctag gtcagcccaa ggctgcccc cgggtcactc tgttcccacc ctctcttag 720
 gagcttcaag ccaacaaggc cacactggtg tgtctcataa gtgacttcta cccgggagcc 780
 gtgacagtgg cctggaaggc agatagcagc cccgtcaagg cgggagtgga gaccac 836

<210> 124
 <211> 684
 <212> DNA
 <213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 474457.35

<400> 124

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aggaactctc cttcttttggg ccacggaatt aaccggagca ggcatggagg cctctgtctc 180
cacctcatca gcagtgaaca gtgtggccaa agtgggtcagg gtggcctctg gctctgccgt 240
agttttgccc ctggccagga ttgctacagt tgtgattgga ggagttgtgg ctgtgcccat 300
ggtgtctcagt gccatgggct tcaactgcggc gggaatcgcc tcgtcctcca tagcagccaa 360
gatgatgtcc gcggcggcca ttgccaatgg ggggtggagt gcctcgggca gccttgtggc 420
tactctgcag tcaactgggag caactggact ctccggattg accaagttca tcctgggctc 480
cattgggtct gccattgcgg ctgtcattgc gaggtttctac tagctccctg cccctcgccc 540
tgcagagaag agaaccatgc caggggagaa ggcaccagc catcctgacc cagcgaggag 600
ccaactatcc caaatatacc tggggtgaaa tataccaaat tctgcatctc cagaggaaaag 660
tgagaaatag agatgaagtg ttgt

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<210> 125

<211> 644

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 474457.45

<400> 125

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tctcacctca tcagcagtga ccagtgtggc caaagtggtc aggggtggcct ctggctctgc 180
cgtagttttg cccctggcca ggattgtctac agttgtgatt ggaggagttg tggctgtgcc 240
catggtgtct agtgccatgg gcttcaactgc ggcggaatc gcctcgtcct ccatagcagc 300
caagatgatg tccgcggcgg ccattgccaa tgggggtgga gttgcctcgg gcagccttgt 360
ggctactctg cagtcaactgg gagcaactgg actctccgga ttgaccaagt tcatcctggg 420
ctccattggg tctgccattg cggctgtcat tgcgaggttc tactagctcc ctgccccctg 480
ccctgcagag aagagaacca tgccagggga gaaggcacc agccatcctg acccagcgag 540
gagccaacta tcccaaatat acctgggggtg aaatatacca aattctgcat ctccagagga 600
aaataagaaa taaagatgaa ttgttgcaac tctaaaaaaa aaaa

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<210> 126

<211> 1115

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 898779CB1

<400> 126

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gcctgggcga cagagcaaga cttcatctca aaaaaaaaaa aaaagggcgg cgctcctcgc 180
cagcagccgt ccggagccag ccaacgagcg gaaaaatggca gacaattttt cgctccatga 240
tgcgttatct gggctctgga acccaaacc tcaaggatgg cctggcgcct gggggaacca 300
gcctgctggg gcagggggct accaggggc ttccctatct cctggcctacc ccgggcaggc 360
acccccaggg gcttatcctg gacaggcacc tccaggcgcc taccatggag cacctggagc 420
ttatcccgga gcacctgcac ctggagteta cccagggccca cccagcggcc ctggggccta 480
cccatcttct ggacagccaa gtgcccccg agcctaccct gccactggcc cctatggcgc 540
ccctgctggg ccaactgatt tgccctataa cctgcctttg cctgggggag tgggtgcctcg 600
catgtgata acaattcttg gcacggtgaa gcccaatgca aacagaattg ctttagattt 660
ccaaagaggg aatgatgttg ccttccact taacccagc ttcaatgaga acaacaggag 720
agtcattgtt tgcaatacaa agctggataa taactgggga agggaagaaa gacagtcggg 780
tttcccattt gaaagtggga aaccattcaa aatacaagta ctggttgaac ctgaccactt 840
caaggttgca gtgaatgat ctcacttggt gcagtacaat catcgggtta aaaaactcaa 900
tgaaatcagc aaactgggaa tttctggtga catagacctc accagtgtct catataccat 960

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gatataatct gaaaggggca gattaaaaaa aaaaaaagaa tctaaacctt acatgtgtaa 1020
 aggtttcatg ttcactgtga gtgaaaattt ttacattcat caatatccct cttgtaagtc 1080
 atctacttaa taaatattac agtgaaaaaa aaaaa 1115

<210> 127
 <211> 250
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 898779CD1

<400> 127
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 1 5 10 15
 Asn Pro Asn Pro Gln Gly Trp Pro Gly Ala Trp Gly Asn Gln Pro
 20 25 30
 Ala Gly Ala Gly Gly Tyr Pro Gly Ala Ser Tyr Pro Gly Ala Tyr
 35 40 45
 Pro Gly Gln Ala Pro Pro Gly Ala Tyr Pro Gly Gln Ala Pro Pro
 50 55 60
 Gly Ala Tyr His Gly Ala Pro Gly Ala Tyr Pro Gly Ala Pro Ala
 65 70 75
 Pro Gly Val Tyr Pro Gly Pro Pro Ser Gly Pro Gly Ala Tyr Pro
 80 85 90
 Ser Ser Gly Gln Pro Ser Ala Pro Gly Ala Tyr Pro Ala Thr Gly
 95 100 105
 Pro Tyr Gly Ala Pro Ala Gly Pro Leu Ile Val Pro Tyr Asn Leu
 110 115 120
 Pro Leu Pro Gly Gly Val Val Pro Arg Met Leu Ile Thr Ile Leu
 125 130 135
 Gly Thr Val Lys Pro Asn Ala Asn Arg Ile Ala Leu Asp Phe Gln
 140 145 150
 Arg Gly Asn Asp Val Ala Phe His Phe Asn Pro Arg Phe Asn Glu
 155 160 165
 Asn Asn Arg Arg Val Ile Val Cys Asn Thr Lys Leu Asp Asn Asn
 170 175 180
 Trp Gly Arg Glu Glu Arg Gln Ser Val Phe Pro Phe Glu Ser Gly
 185 190 195
 Lys Pro Phe Lys Ile Gln Val Leu Val Glu Pro Asp His Phe Lys
 200 205 210
 Val Ala Val Asn Asp Ala His Leu Leu Gln Tyr Asn His Arg Val
 215 220 225
 Lys Lys Leu Asn Glu Ile Ser Lys Leu Gly Ile Ser Gly Asp Ile
 230 235 240
 Asp Leu Thr Ser Ala Ser Tyr Thr Met Ile
 245 250

<210> 128
 <211> 2528
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1843408CB1

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 aaacctgtgg atctcccttc gagatcatcc aaagagaaga aaggtaagta gagctttgca 120
 ttacattttt gaaaaattac aaagatgaac tcattttttt cctgagagca ataactattt 180
 ggcaatgcac agccctggca aaaggccgctc gaatgtgttt gaagggtgtct gttgttgttt 240
 ttgttcagga cgcttgcggt ttctatttca ggtgacctca cattcgtgcc ccttagcagc 300
 actctgcaga aatgcctcct cagctgcaaa acggcctgaa cctctcggcc aaagttgtcc 360
 aggggaagcct ggacagccta cccagggcag tgaggaggatt tctcgagaat aacgctgagc 420

tgtgtcagcc tgatcacatc cacatctgtg acggctctga ggaggagaat gggcggttc 480
 tgggccagat ggaggaagag ggcacctca ggcggctgaa gaagtatgac aactgctggt 540
 tggctctcac tgacccagag gatgtggcca ggatcgaaag caagacggtt atcgtcacc 600
 aagagcaaaag agacacagtg cccatcccca aaacaggcct cagccagctc ggtcgctgga 660
 tgtcagagga ggattttgag aaagcggttca atgccaggtt cccagggtgc atgaaaggtc 720
 gcaccatgta cgtcatccca ttcagcatgg ggccgctggg ctcacctctg tcgaagatcg 780
 gcatcgagct gacggattcg ccctacgtgg tggccagcat gcggatcatg acgcggatgg 840
 gcacgcccgt cctggaagca ctgggcatg gggagtttgt caaatgcctc cattctgtgg 900
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 cgctcatcgc ccacctgcct gaccgcagag agatcatctc ctttggcagt gggtagcgcg 1020
 ggaaactcgt gctcggaag aagtgccttg ctctcaggat ggccagccgg ctggccaagg 1080
 aggaaggggtg gctggcagag cacatgctga ttctgggtat aaccaaccct gaggggtgaga 1140
 agaagtacct ggcgcccgca ttcccgagcg cctgcgggaa gaccaacctg gccatgatga 1200
 accccagcct ccccggttgg aagggtttagt gcgtcgggga tgacattgcc tggatgaagt 1260
 ttgacgcaca aggtcattta agggccatca acccagaaaa tggctttttc ggtgtcgctc 1320
 ctgggacttc agtgaagacc aaccccaatg ccatcaagac catccagaag aacacaatc 1380
 ttaccaatgt ggccgagacc agcgacgggg gcgtttactg ggaaggcatt gatagcgcg 1440
 tagcttcagg cgtcaccatc acgtcctgga agaataagga gtggagctca gaggatgggg 1500
 aaccttgtgc ccaccccaac tcgaggttct gcacccctgc cagccagtgc cccatcattg 1560
 atgtgcctg ggagtctccg gaaggtgttc ccattgaagg cattatcttt ggaggccgta 1620
 gacctgctgg tgtccctcta gtctatgaag ctctcagctg gcaacatgga gtctttgtgg 1680
 gggcgggccat gagatcagag gccacagcgg ctgcagaaca taaaggcaaa atcatcatgc 1740
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 ggcttagcat ggcccagcac ccagcagcca aactgcccga gatcttccat gtcaactggg 1860
 tccggaagga caaggaaggc aaattcctct ggccaggctt tggagagaa tccaggggtgc 1920
 tggagtggat gttcaaccgg atcgatggaa aagccagcac caagctcacg cccataggct 1980
 acatcccaa ggaggatgcc ctgaacctga aaggcctggg gcacatcaac atgatggagc 2040
 ttttcagcat ctccaaggaa ttctgggaga aggaggtgga agacatcgag aagtatctgg 2100
 aggatcaagt caatgccgac ctcccctgtg aaatcgagag agagatcctt gccttgaagc 2160
 aaagaataag ccagatgtaa tcagggcctg agaataagcc agatgtaate agggcctgag 2220
 tgctttacct ttaaatcat taaattaaaa tccataaggt gcagtaggag caagagaggg 2280
 caagtgttcc caaattgacg ccaccataat aatcatcacc acaccgtgag cagatctgaa 2340
 aggcacactt tgattttttt aaggataaga accacagaa actgggtagt agctaataaa 2400
 attgagaagg gaaatcttag catgcctcca aaaattcaca tccaatgcat agtttgttca 2460
 aatttaaggt tactcaggca ttgatctttt cagtgttttt tcacttttagc tatgtggatt 2520
 agctagaa 2528

<210> 129

<211> 622

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1843408CD1

<400> 129

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Val	Gln	Gly	Ser	Leu	Asp	Ser	Leu	Pro	Gln	Ala	Val	Arg	Glu	Phe
				20					25					30
Leu	Glu	Asn	Asn	Ala	Glu	Leu	Cys	Gln	Pro	Asp	His	Ile	His	Ile
				35					40					45
Cys	Asp	Gly	Ser	Glu	Glu	Glu	Asn	Gly	Arg	Leu	Leu	Gly	Gln	Met
				50					55					60
Glu	Glu	Glu	Gly	Ile	Leu	Arg	Arg	Leu	Lys	Lys	Tyr	Asp	Asn	Cys
				65					70					75
Trp	Leu	Ala	Leu	Thr	Asp	Pro	Arg	Asp	Val	Ala	Arg	Ile	Glu	Ser
				80					85					90
Lys	Thr	Val	Ile	Val	Thr	Gln	Glu	Gln	Arg	Asp	Thr	Val	Pro	Ile
				95					100					105
Pro	Lys	Thr	Gly	Leu	Ser	Gln	Leu	Gly	Arg	Trp	Met	Ser	Glu	Glu
				110					115					120
Asp	Phe	Glu	Lys	Ala	Phe	Asn	Ala	Arg	Phe	Pro	Gly	Cys	Met	Lys
				125					130					135
Gly	Arg	Thr	Met	Tyr	Val	Ile	Pro	Phe	Ser	Met	Gly	Pro	Leu	Gly

				140					145				150	
Ser	Pro	Leu	Ser	Lys	Ile	Gly	Ile	Glu	Leu	Thr	Asp	Ser	Pro	Tyr
				155					160					165
Val	Val	Ala	Ser	Met	Arg	Ile	Met	Thr	Arg	Met	Gly	Thr	Pro	Val
				170					175					180
Leu	Glu	Ala	Leu	Gly	Asp	Gly	Glu	Phe	Val	Lys	Cys	Leu	His	Ser
				185					190					195
Val	Gly	Cys	Pro	Leu	Pro	Leu	Gln	Lys	Pro	Leu	Val	Asn	Asn	Trp
				200					205					210
Pro	Cys	Asn	Pro	Glu	Leu	Thr	Leu	Ile	Ala	His	Leu	Pro	Asp	Arg
				215					220					225
Arg	Glu	Ile	Ile	Ser	Phe	Gly	Ser	Gly	Tyr	Gly	Gly	Asn	Ser	Leu
				230					235					240
Leu	Gly	Lys	Lys	Cys	Phe	Ala	Leu	Arg	Met	Ala	Ser	Arg	Leu	Ala
				245					250					255
Lys	Glu	Glu	Gly	Trp	Leu	Ala	Glu	His	Met	Leu	Ile	Leu	Gly	Ile
				260					265					270
Thr	Asn	Pro	Glu	Gly	Glu	Lys	Lys	Tyr	Leu	Ala	Ala	Ala	Phe	Pro
				275					280					285
Ser	Ala	Cys	Gly	Lys	Thr	Asn	Leu	Ala	Met	Met	Asn	Pro	Ser	Leu
				290					295					300
Pro	Gly	Trp	Lys	Val	Glu	Cys	Val	Gly	Asp	Asp	Ile	Ala	Trp	Met
				305					310					315
Lys	Phe	Asp	Ala	Gln	Gly	His	Leu	Arg	Ala	Ile	Asn	Pro	Glu	Asn
				320					325					330
Gly	Phe	Phe	Gly	Val	Ala	Pro	Gly	Thr	Ser	Val	Lys	Thr	Asn	Pro
				335					340					345
Asn	Ala	Ile	Lys	Thr	Ile	Gln	Lys	Asn	Thr	Ile	Phe	Thr	Asn	Val
				350					355					360
Ala	Glu	Thr	Ser	Asp	Gly	Gly	Val	Tyr	Trp	Glu	Gly	Ile	Asp	Glu
				365					370					375
Pro	Leu	Ala	Ser	Gly	Val	Thr	Ile	Thr	Ser	Trp	Lys	Asn	Lys	Glu
				380					385					390
Trp	Ser	Ser	Glu	Asp	Gly	Glu	Pro	Cys	Ala	His	Pro	Asn	Ser	Arg
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Gln	His	Gly	Val	Phe	Val	Gly	Ala	Ala	Met	Arg	Ser	Glu	Ala	Thr
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His	Ile	Asn	Met	Met	Glu	Leu	Phe	Ser	Ile	Ser	Lys	Glu	Phe	Trp
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Asn	Ala	Asp	Leu	Pro	Cys	Glu	Ile	Glu	Arg	Glu	Ile	Leu	Ala	Leu
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<220>

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<223> Incyte ID No: 983354.2

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<222> 77, 103
<223> a, t, c, g, or other

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gggcagatag atgctgatga attgcagaga tgtctgacac agtctggcat tgtggagga 300
tacaacgat ttaggttgag tccccaggct gtgaattcaa ttgcaaacg atacagcacc 360
aatggaaaga tcaccttcca cgactacatc gcctgctgcg tcaaactgag ggctcttaca 420

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gacagctttc gaagacggga tactgctcag caagggtgttg tgaatttccc atatgatgat 480
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 tccaactgga gctctccttt gcttgctctc tttgccttcg gtaatatgta taaacttaca 600
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<210> 136
 <211> 406
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1310030.1

<400> 136
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 gggacccccg gacagagggt caccatctcc tgttctggca gcagctccaa catcggaagt 180
 ctactgtgac tggatatcaac aattcccagg aatggccccc agacttctca tttataggga 240
 ttatcagcgg ccctcagggg tccctgaccg attctactgg ctccagggtc ggcaccgcag 300
 cctccctggc catcagtggg ctccagcctg aagatgaggg tgattactat tgtgcacctg 360
 ggataccagc ctgggtgttc atgtgctgtt cggcggaggg accaaa 406

<210> 137
 <211> 1380
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2804864CB1

<400> 137
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 cggacaaact caggatccgc tgtatgggta ctttgctgct gtagctggac aggatgggca 180
 gatagatgct gatgaattgc agagatgtct gacacagtct ggcattgctg gaggatacaa 240
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 cacaatgggt ttcaatgaat ttaaagaact ctgggctgta ctgaatggct ggagacaaca 360
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 acttacatca cgactttctc ttaacagctg ttgtaaagtt tattacttta tgtacaactg 780
 aagttttgtt ttagttttga taataaatte tttggaactt taataagatc tagtctgtta 840
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<210> 138
 <211> 198
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2804864CD1

<400> 138

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  20          25          30
Thr Gln Asp Pro Leu Tyr Gly Tyr Phe Ala Ala Val Ala Gly Gln
  35          40          45
Asp Gly Gln Ile Asp Ala Asp Glu Leu Gln Arg Cys Leu Thr Gln
  50          55          60
Ser Gly Ile Ala Gly Gly Tyr Lys Pro Phe Asn Leu Glu Thr Cys
  65          70          75
Arg Leu Met Val Ser Met Leu Asp Arg Asp Met Ser Gly Thr Met
  80          85          90
Gly Phe Asn Glu Phe Lys Glu Leu Trp Ala Val Leu Asn Gly Trp
  95          100         105
Arg Gln His Phe Ile Ser Phe Asp Thr Asp Arg Ser Gly Thr Val
  110         115         120
Asp Pro Gln Glu Leu Gln Lys Ala Leu Thr Thr Met Gly Phe Arg
  125         130         135
Leu Ser Pro Gln Ala Val Asn Ser Ile Ala Lys Arg Tyr Ser Thr
  140         145         150
Asn Gly Lys Ile Thr Phe Asp Asp Tyr Ile Ala Cys Cys Val Lys
  155         160         165
Leu Arg Ala Leu Thr Asp Ser Phe Arg Arg Arg Asp Thr Ala Gln
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Gln Gly Val Val Asn Phe Pro Tyr Asp Asp Phe Ile Gln Cys Val
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Met Ser Val

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<210> 139

<211> 1527

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 349615.7

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cccctcacc tccaccctt tgggcttttt attcccgaat tttcccagtc tcttaaacag 1440
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ataagtttcc ccaactcaca cagcata

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PA-0038 US

<210> 140
<211> 1114
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 632664CB1

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gcccgccttc gagggcgccc caggccgcgc catggtgaag gtgacgttca actccgctct 180
ggcccagaag gagggcaaga aggacgagcc caagagcggc gaggagcgcc tcatcatccc 240
ccccgacgcc gtcgcgggtg actgcaagga cccagatgat gtggtaccag ttggccaaag 300
aagagcctgg tgttggtgca tgtgctttgg actagcattt atgcttgacg gtgttattct 360
aggaggagca tacttgta aatattttgc acttcaacca gatgacgtgt actactgtgg 420
aataaagtac atcaaagatg atgtcatctt aaatgagccc tctgcagatg cccagctgc 480
tctctaccag acaattgaag aaaatattaa aatctttgaa gaagaagaag ttgaatttat 540
cagtgtgcct gtcccagagt ttgcagatag tgatcctgcc aacattgttc atgactttaa 600
caagaaactt acagcctatt tagatcttaa cctggataag tgctatgtga tccctctgaa 660
cacttccatt gttatgccac ccagaaacct actggagtta cttattaaca tcaaggctgg 720
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aaacattgat cacctgggtt tctttattta tcgactgtgt catgacaagg aaacttaca 840
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aattcggcat tttgaaaaca aatttgccgt ggaaacttta atttgttctt gaacagtcaa 960
gaaaaacatt attgaggaaa attaatatca cagcataacc ccacccttta cattttgtgc 1020
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catctcatta attcaattaa aaccattacc ttaa 1114

<210> 141
<211> 266
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 632664CD1

<400> 141
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Lys Lys Asp Glu Pro Lys Ser Gly Glu Glu Ala Leu Ile Ile Pro
20 25 30
Pro Asp Ala Val Ala Val Asp Cys Lys Asp Pro Asp Asp Val Val
35 40 45
Pro Val Gly Gln Arg Arg Ala Trp Cys Trp Cys Met Cys Phe Gly
50 55 60
Leu Ala Phe Met Leu Ala Gly Val Ile Leu Gly Gly Ala Tyr Leu
65 70 75
Tyr Lys Tyr Phe Ala Leu Gln Pro Asp Asp Val Tyr Tyr Cys Gly
80 85 90
Ile Lys Tyr Ile Lys Asp Asp Val Ile Leu Asn Glu Pro Ser Ala
95 100 105
Asp Ala Pro Ala Ala Leu Tyr Gln Thr Ile Glu Glu Asn Ile Lys
110 115 120
Ile Phe Glu Glu Glu Val Glu Phe Ile Ser Val Pro Val Pro
125 130 135
Glu Phe Ala Asp Ser Asp Pro Ala Asn Ile Val His Asp Phe Asn
140 145 150
Lys Lys Leu Thr Ala Tyr Leu Asp Leu Asn Leu Asp Lys Cys Tyr
155 160 165
Val Ile Pro Leu Asn Thr Ser Ile Val Met Pro Pro Arg Asn Leu
170 175 180
Leu Glu Leu Leu Ile Asn Ile Lys Ala Gly Thr Tyr Leu Pro Gln
185 190 195

Ser	Tyr	Leu	Ile	His	Glu	His	Met	Val	Ile	Thr	Asp	Arg	Ile	Glu
				200					205					210
Asn	Ile	Asp	His	Leu	Gly	Phe	Phe	Ile	Tyr	Arg	Leu	Cys	His	Asp
				215					220					225
Lys	Glu	Thr	Tyr	Lys	Leu	Gln	Arg	Arg	Glu	Thr	Ile	Lys	Gly	Ile
				230					235					240
Gln	Lys	Arg	Glu	Ala	Ser	Asn	Cys	Phe	Ala	Ile	Arg	His	Phe	Glu
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Asn	Lys	Phe	Ala	Val	Glu	Thr	Leu	Ile	Cys	Ser				
				260					265					

<210> 142
 <211> 1030
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 995929.22

<400> 142

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taaaattgat	cagatgggaa	gatggtttgt	tgctggaggg	gctgctgttg	gtcttggagc	420
attgtgctac	tatggcttgg	gactgtctaa	tgagattgga	gctattgaaa	aggctgtaat	480
ttggcctcag	tatgtcaagg	atagaattca	ttccacctat	atgtacttag	cagggagtat	540
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gatgagaggc	tcttgggtga	caattgggtg	gacctttgca	gccatgggtg	gagctggaat	660
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ccagaaagta						1030

<210> 143
 <211> 2386
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 995929.27

<220>
 <221> unsure
 <222> 1907, 2297
 <223> a, t, c, g, or other

<400> 143

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aagcatcttg	cttggtttgt	acattctggt	gtgatgggtg	cagtgggtgg	tcctctgaca	480
atattagggg	gtcctcttct	catcagagct	gcattggtaca	cagctggcat	tgtgggaggc	540
ctctccactg	tggccatgtg	tgcgcccagt	gaaaagtttc	tgaacatggg	tgcacccctg	600
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<211> 1212

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1397029.1

<400> 144

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<210> 145

<211> 841

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 403560.1

<400> 145

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gatctcagtg tgagtatcat tgatgcctgg gatataacaa ttgcatatgg cacaataaat 780
gtacaccac ctcaacatgt agtcggaaat cagattaata tattattaaa ctatatttgt 840
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<210> 146

<211> 1480

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1329606.3

<220>

<221> unsure

<222> 134, 198, 206

<223> a, t, c, g, or other

<400> 146

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<210> 147

<211> 532

<212> DNA

<213> Homo sapiens

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 <223> Incyte ID No: 1092257.12

<220>
 <221> unsure
 <222> 321, 371, 441, 482, 491, 526
 <223> a, t, c, g, or other

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 <211> 1853
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 <213> Homo sapiens

<220>
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 <211> 334
 <212> DNA
 <213> Homo sapiens

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 <222> 240, 321
 <223> a, t, c, g, or other

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 <223> Incyte ID No: 1330137.1

<220>
 <221> unsure
 <222> 139
 <223> a, t, c, g, or other

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 <212> DNA
 <213> Homo sapiens

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 <221> misc_feature
 <223> Incyte ID No: 3699582CB1

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<210> 152

<211> 533

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3699582CD1

<400> 152

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Leu Leu Ile Pro Val Asp Gly Ser His Trp Leu Ser Met Leu Gly
  35          40          45
Ala Ile Gln Gln Leu Gln Gln Arg Gly His Glu Ile Val Val Leu
  50          55          60
Ala Pro Asp Ala Ser Leu Tyr Ile Arg Asp Gly Ala Phe Tyr Thr
  65          70          75
Leu Lys Thr Tyr Pro Val Pro Phe Gln Arg Glu Asp Val Lys Glu
  80          85          90
Ser Phe Val Ser Leu Gly His Asn Val Phe Glu Asn Asp Ser Phe
  95          100         105
Leu Gln Arg Val Ile Lys Thr Tyr Lys Lys Ile Lys Lys Asp Ser
  110         115         120
Ala Met Leu Leu Ser Gly Cys Ser His Leu Leu His Asn Lys Glu
  125         130         135
Leu Met Ala Ser Leu Ala Glu Ser Ser Phe Asp Val Met Leu Thr
  140         145         150
Asp Pro Phe Leu Pro Cys Ser Pro Ile Val Ala Gln Tyr Leu Ser
  155         160         165
Leu Pro Thr Val Phe Phe Leu His Ala Leu Pro Cys Ser Leu Glu
  170         175         180
Phe Glu Ala Thr Gln Cys Pro Asn Pro Phe Ser Tyr Val Pro Arg
  185         190         195
Pro Leu Ser Ser His Ser Asp His Met Thr Phe Leu Gln Arg Val
  200         205         210
Lys Asn Met Leu Ile Ala Phe Ser Gln Asn Phe Leu Cys Asp Val
  215         220         225
Val Tyr Ser Pro Tyr Ala Thr Leu Ala Ser Glu Phe Leu Gln Arg
  230         235         240
Glu Val Thr Val Gln Asp Leu Leu Ser Ser Ala Ser Val Trp Leu
  245         250         255

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Phe Arg Ser Asp Phe Val Lys Asp Tyr Pro Arg Pro Ile Met Pro
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 Asn Met Val Phe Val Gly Gly Ile Asn Cys Leu His Gln Asn Pro
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 Leu Ser Gln Glu Phe Glu Ala Tyr Ile Asn Ala Ser Gly Glu His
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 Gly Ile Val Val Phe Ser Leu Gly Ser Met Val Ser Glu Ile Pro
 305 310 315
 Glu Lys Lys Ala Met Ala Ile Ala Asp Ala Leu Gly Lys Ile Pro
 320 325 330
 Gln Thr Val Leu Trp Arg Tyr Thr Gly Thr Arg Pro Ser Asn Leu
 335 340 345
 Ala Asn Asn Thr Ile Leu Val Lys Trp Leu Pro Gln Asn Asp Leu
 350 355 360
 Leu Gly His Pro Met Thr Arg Ala Phe Ile Thr His Ala Gly Ser
 365 370 375
 His Gly Val Tyr Glu Ser Ile Cys Asn Gly Val Pro Met Val Met
 380 385 390
 Met Pro Leu Phe Gly Asp Gln Met Asp Asn Ala Lys Arg Met Glu
 395 400 405
 Thr Lys Gly Ala Gly Val Thr Leu Asn Val Leu Glu Met Thr Ser
 410 415 420
 Glu Asp Leu Glu Asn Ala Leu Lys Ala Val Ile Asn Asp Lys Ser
 425 430 435
 Tyr Lys Glu Asn Ile Met Arg Leu Ser Ser Leu His Lys Asp Arg
 440 445 450
 Pro Val Glu Pro Leu Asp Leu Ala Val Phe Trp Val Glu Phe Val
 455 460 465
 Met Arg His Lys Gly Ala Pro His Leu Arg Pro Ala Ala His Asp
 470 475 480
 Leu Thr Trp Tyr Gln Tyr His Ser Leu Asp Val Ile Gly Phe Leu
 485 490 495
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<210> 153

<211> 2385

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 344537.24

<400> 153

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<210> 154
<211> 391
<212> DNA
<213> Homo sapiens

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<221> misc_feature
<223> Incyte ID No: 016124.2

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<220>
<221> unsure
<222> 379, 385-386
<223> a, t, c, g, or other

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<212> DNA
<213> Homo sapiens

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<223> Incyte ID No: 104423.33

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<222> 721-979
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<210> 156

<211> 2405

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 406977.2

<220>

<221> unsure

<222> 1582, 1591, 1604, 1648

<223> a, t, c, g, or other

<400> 156

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gcagccccct gctccggagg ctggtgcagg aaataagata tgtggaacgg agttatgtat 180
caaaacccac tttgaaggaa gtggtcatag taagtgtac aagaacaccc attggatctt 240
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gtagatcttt tgaaggagca aaatgacaat atatgggaga aatagattag attgctcttc 2340
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<210> 157

<211> 1760

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3355973CB1

<400> 157

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cacctctggc ccccgggcct tcagcagccg ctctacacg agtggggccc gttcccgcac 180
cagctcctcg agcttctccc gagtgggagc cagcaacttt cgcggtggcc tggggggcgg 240
ctatggtggg gccagcggca tgggaggcat caccgcagtt acggctcaacc agagcctgct 300
gagccccctt gtcctggagg tggaccacca catccaggcc gtgcgcaccc aggagaagga 360
gcagatcaag accctcaaca acaagtttgc ctcttcata gacaaggtac ggttctctgga 420
gcagcagaac aagatgctgg agaccaagtg gagcctcctg cagcagcaga agacggctcg 480

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aagcaacatg gacaacatgt tgcgagagcta catcaacaac cttaggcggc agctggagac 540
tctggggccag gagaagctga agctggaggc ggagcttggc aacatgcagg ggctgggtga 600
ggacttcaag aacaagtatg aggatgagat caataagcgt acagagatgg agaacgaatt 660
tgtcctcatc aagaaggatg tggatgaagc ttacatgaac aaggtagagc tggagtctcg 720
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<210> 158

<211> 483

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3355973CD1

<400> 158

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20 25 30
Ser Arg Ile Ser Ser Ser Ser Phe Ser Arg Val Gly Ser Ser Asn
35 40 45
Phe Arg Gly Gly Leu Gly Gly Gly Tyr Gly Gly Ala Ser Gly Met
50 55 60
Gly Gly Ile Thr Ala Val Thr Val Asn Gln Ser Leu Leu Ser Pro
65 70 75
Leu Val Leu Glu Val Asp Pro Asn Ile Gln Ala Val Arg Thr Gln
80 85 90
Glu Lys Glu Gln Ile Lys Thr Leu Asn Asn Lys Phe Ala Ser Phe
95 100 105
Ile Asp Lys Val Arg Phe Leu Glu Gln Gln Asn Lys Met Leu Glu
110 115 120
Thr Lys Trp Ser Leu Leu Gln Gln Gln Lys Thr Ala Arg Ser Asn
125 130 135
Met Asp Asn Met Phe Glu Ser Tyr Ile Asn Asn Leu Arg Arg Gln
140 145 150
Leu Glu Thr Leu Gly Gln Glu Lys Leu Lys Leu Glu Ala Glu Leu
155 160 165
Gly Asn Met Gln Gly Leu Val Glu Asp Phe Lys Asn Lys Tyr Glu
170 175 180
Asp Glu Ile Asn Lys Arg Thr Glu Met Glu Asn Glu Phe Val Leu
185 190 195
Ile Lys Lys Asp Val Asp Glu Ala Tyr Met Asn Lys Val Glu Leu
200 205 210
Glu Ser Arg Leu Glu Gly Leu Thr Asp Glu Ile Asn Phe Leu Arg
215 220 225
Gln Leu Tyr Glu Glu Glu Ile Arg Glu Leu Gln Ser Gln Ile Ser
230 235 240
Asp Thr Ser Val Val Leu Ser Met Asp Asn Ser Arg Ser Leu Asp

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	245		250		255
Met Asp Ser Ile	Ile Ala Glu Val Lys	Ala Gln Tyr Glu Asp	Ile		
	260		265		270
Ala Asn Arg Ser	Arg Ala Glu Ala Glu	Ser Met Tyr Gln Ile	Lys		
	275		280		285
Tyr Glu Glu Leu	Gln Ser Leu Ala Gly	Lys His Gly Asp Asp	Leu		
	290		295		300
Arg Arg Thr Lys	Thr Glu Ile Ser Glu	Met Asn Arg Asn Ile	Ser		
	305		310		315
Arg Leu Gln Ala	Glu Ile Glu Gly Leu	Lys Gly Gln Arg Ala	Ser		
	320		325		330
Leu Glu Ala Ala	Ile Ala Asp Ala Glu	Gln Arg Gly Glu Leu	Ala		
	335		340		345
Ile Lys Asp Ala	Asn Ala Lys Leu Ser	Glu Leu Glu Ala Ala	Leu		
	350		355		360
Gln Arg Ala Lys	Gln Asp Met Ala Arg	Gln Leu Arg Glu Tyr	Gln		
	365		370		375
Glu Leu Met Asn	Val Lys Leu Ala Leu	Asp Ile Glu Ile Ala	Thr		
	380		385		390
Tyr Arg Lys Leu	Leu Glu Gly Glu Glu	Ser Arg Leu Glu Ser	Gly		
	395		400		405
Met Gln Asn Met	Ser Ile His Thr Lys	Thr Thr Ser Gly Tyr	Ala		
	410		415		420
Gly Gly Leu Ser	Ser Ala Tyr Gly Gly	Leu Thr Ser Pro Gly	Leu		
	425		430		435
Ser Tyr Ser Leu	Gly Ser Ser Phe Gly	Ser Gly Ala Gly Ser	Ser		
	440		445		450
Ser Phe Ser Arg	Thr Ser Ser Ser Arg	Ala Val Val Val Lys	Lys		
	455		460		465
Ile Glu Thr Arg	Asp Gly Lys Leu Val	Ser Glu Ser Ser Asp	Val		
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Leu Pro Lys					

<210> 159

<211> 5427

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 406457.3

<400> 159

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gggcagctat ggagccgcgg ccacacggcg cctcctccgg cgccccggga ctggccggggg 180
tcggggagac gccgtcagcc gctgcgctgg ccgcagccag ggtggaactg cccggcacagg 240
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cgcgggcggc ggcggcagcg gcggcggtg gtgctggggc gggggccaag cagacccccg 480
cggacgggga agccagcggc gagagcgagc cagctaaagg cagcgaggaa gccaaaggcc 540
gcttccgcgt gaacttcgtg gacccagctg cctcctcgtc ggctgaagac agcctgtcag 600
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gaagtctagg gccagaattt ggtggtgcaa ttggtctaata cttcgctttt gccacgctg 1260
ttgcagttgc tatgtatgtg gttggatttg cagaaaccgt ggtggagttg ctttaaggaa 1320

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caaaggtgat catttgaagg gcatgctgta atttcacaca attttccagt tcaaaaatgg 5340
agaatacttc gcctaaaata ctgttaagtg ggttaattga tacaagtttc tgtggtggaa 5400
aatttatgca ggttttcacg aatcctt 5427

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<210> 160
<211> 1145
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<223> Incyte ID No: 2190217CB1

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<400> 160
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gaagtcagac ccactctgcg ggccaagaaa ggtgaccggg ctcccttccg gcttgctaag 180
cagaggccgg aagcgggtgt ttttagcggc tctctgggta gcagggtggt gtgatacgcg 240
cagcgagggg ctcgagaggg tgcctggatt ctctgtagctg tgccgggact taaccaccac 300
catgtcagagc aaaagaacaa agaccaagac caagaagcgc cctcagcgtg caacatccaa 360
tgtgtttgct atgtttgacc agtcacagat tcaggagttc aaagaggcct tcaacatgat 420
tgatcagaac agagatgggt tcatcgacaa ggaagatttg catgatatgc ttgcttcatt 480
ggggaagaat ccaactgatg agtatctaga tgccatgatg aatgaggctc caggccccat 540
caatttcacc atgttcctca ccattgttgg tgagaagtta aatggcacag atcctgaaga 600
tgtcatcaga aatgcctttg cttgctttga tgaagaagca actggcacca tacaggaaga 660
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gctgtacaga gaagcaccta ttgataaaaa ggggaatttc aattacatcg agttcacacg 780
catcctgaaa catggagcca aagacaaaaga tgactgaaat aacttcaaat tccagccaaa 840
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aaaaa 1145

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<210> 161
<211> 171
<212> PRT
<213> Homo sapiens

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<220>
<221> misc_feature
<223> Incyte ID No: 2190217CD1

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<400> 161
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20 25 30
Gln Glu Phe Lys Glu Ala Phe Asn Met Ile Asp Gln Asn Arg Asp
35 40 45
Gly Phe Ile Asp Lys Glu Asp Leu His Asp Met Leu Ala Ser Leu
50 55 60
Gly Lys Asn Pro Thr Asp Glu Tyr Leu Asp Ala Met Met Asn Glu
65 70 75
Ala Pro Gly Pro Ile Asn Phe Thr Met Phe Leu Thr Met Phe Gly
80 85 90
Glu Lys Leu Asn Gly Thr Asp Pro Glu Asp Val Ile Arg Asn Ala
95 100 105
Phe Ala Cys Phe Asp Glu Glu Ala Thr Gly Thr Ile Gln Glu Asp
110 115 120
Tyr Leu Arg Glu Leu Leu Thr Thr Met Gly Asp Arg Phe Thr Asp
125 130 135
Glu Glu Val Asp Glu Leu Tyr Arg Glu Ala Pro Ile Asp Lys Lys
140 145 150
Gly Asn Phe Asn Tyr Ile Glu Phe Thr Arg Ile Leu Lys His Gly

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Ala Lys Asp Lys Asp Asp
155
170

160

165

<210> 162
<211> 1184
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 029061.1

<400> 162
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tgcctcaggt atgtttctat gcactgagtg aagagtggag ataaaaatag aatttagatt 180
ttcctttact ttttaaatag gttgttgctt cttatatatt tattctatga tgcaaatgtc 240
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cactcagatt catacattca aagggaagtg tcatgtattc cctttcaatc caccctattc 660
tattgtgtta tcttctctaa ttattttcta tctacattct tcattctctt tccattgac 720
cctatgttct gtgtgataaa aattgcgtca ttggaggctt ttgaagggtta agtattatgc 780
cccatttcac cattaatcaa catacaaccc ttctccatat tttgtaattc ctttcatata 840
cagaaaaaaa gatactataa tttcttcaaa atgcttgata ttaatgatat atgggaaaac 900
aattattttg tgcagcaatc ttcagataac tgggaaaggc cggggaaaaa gagagatact 960
ggtggttctc aatgaacctc gtataaattg tttttattat gtaagctgtc ttcacaaatg 1020
tcttcttatg tatgatcatt agaactgttt tatatatata tgtaaaattt ccacattatc 1080
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aaatataatt tattgtattt tgctataata aactattgat gact 1184

<210> 163
<211> 2613
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1262593.2

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tgtactacta cctccaaata cgttcttgct ggtagtggcg gcagcaggac caattacctc 180
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<211> 713

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1094812.1

<400> 164

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<210> 165

<211> 1636

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2434655CB1

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 agacgcttat gaagaagcta caggaaacca actacgatgt aatgcttata gacctgtga 480
 ttccctgtgg agacctgat gctgagttgc ttgcagtcct tttgtgtctc acacttagaa 540

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caatgctttc agttttgttc cacttctgga ttcaggatta cgactatcat ttttggaag 720
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<210> 166

<211> 527

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2434655CD1

<400> 166

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35 40 45
Leu Ile Val Arg Gly His Glu Val Thr Val Leu Thr His Ser Lys
50 55 60
Pro Ser Leu Ile Asp Tyr Arg Lys Pro Ser Ala Leu Lys Phe Glu
65 70 75
Val Val His Met Pro Gln Asp Arg Thr Glu Glu Asn Glu Ile Phe
80 85 90
Val Asp Leu Ala Leu Asn Val Leu Pro Gly Leu Ser Thr Trp Gln
95 100 105
Ser Val Ile Lys Leu Asn Asp Phe Phe Val Glu Ile Arg Gly Thr
110 115 120
Leu Lys Met Met Cys Glu Ser Phe Ile Tyr Asn Gln Thr Leu Met
125 130 135
Lys Lys Leu Gln Glu Thr Asn Tyr Asp Val Met Leu Ile Asp Pro
140 145 150
Val Ile Pro Cys Gly Asp Leu Met Ala Glu Leu Leu Ala Val Pro
155 160 165
Phe Val Leu Thr Leu Arg Ile Ser Val Gly Gly Asn Met Glu Arg
170 175 180
Ser Cys Gly Lys Leu Pro Ala Pro Leu Ser Tyr Val Pro Val Pro
185 190 195
Met Thr Gly Leu Thr Asp Arg Met Thr Phe Leu Glu Arg Val Lys
200 205 210
Asn Ser Met Leu Ser Val Leu Phe His Phe Trp Ile Gln Asp Tyr
215 220 225
Asp Tyr His Phe Trp Glu Glu Phe Tyr Ser Lys Ala Leu Gly Arg
230 235 240
Pro Thr Thr Leu Cys Glu Thr Val Gly Lys Ala Glu Ile Trp Leu
245 250 255
Ile Arg Thr Tyr Trp Asp Phe Glu Phe Pro Gln Pro Tyr Gln Pro
260 265 270

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Asn Phe Glu Phe Val Gly Gly Leu His Cys Lys Pro Ala Lys Ala
 275 280 285
 Leu Pro Lys Glu Met Glu Asn Phe Val Gln Ser Ser Gly Glu Asp
 290 295 300
 Gly Ile Val Val Phe Ser Leu Gly Ser Leu Phe Gln Asn Val Thr
 305 310 315
 Glu Glu Lys Ala Asn Ile Ile Ala Ser Ala Leu Ala Gln Ile Pro
 320 325 330
 Gln Lys Val Leu Trp Arg Tyr Lys Gly Lys Lys Pro Ser Thr Leu
 335 340 345
 Gly Ala Asn Thr Arg Leu Tyr Asp Trp Ile Pro Gln Asn Asp Leu
 350 355 360
 Leu Gly His Pro Lys Thr Lys Ala Phe Ile Thr His Gly Gly Met
 365 370 375
 Asn Gly Ile Tyr Glu Ala Ile Tyr His Gly Val Pro Met Val Gly
 380 385 390
 Val Pro Ile Phe Gly Asp Gln Leu Asp Asn Ile Ala His Met Lys
 395 400 405
 Ala Lys Gly Ala Ala Val Glu Ile Asn Phe Lys Thr Met Thr Ser
 410 415 420
 Glu Asp Leu Leu Arg Ala Leu Arg Thr Val Ile Thr Asp Ser Ser
 425 430 435
 Tyr Lys Glu Asn Ala Met Arg Leu Ser Arg Ile His His Asp Gln
 440 445 450
 Pro Val Lys Pro Leu Asp Arg Ala Val Phe Trp Ile Glu Phe Val
 455 460 465
 Met Arg His Lys Gly Ala Lys His Leu Arg Ser Ala Ala His Asp
 470 475 480
 Leu Thr Trp Phe Gln His Tyr Ser Ile Asp Val Ile Gly Phe Leu
 485 490 495
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 515 520 525
 Arg Glu

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 <211> 910
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 206344.1

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<210> 168
 <211> 1525

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1075717.7

<400> 168

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ttaataaact  acgctgagac  aaattttaac  taggactggt  ctaggggagc  tagagataag  180
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<210> 169

<211> 1174

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1075717.1

<400> 169

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PA-0038 US

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<211> 792
<212> DNA
<213> Homo sapiens

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<223> Incyte ID No: 372647.1

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gttaaacgaa gc 792

<210> 171
<211> 986
<212> DNA
<213> Homo sapiens

<220>
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<223> Incyte ID No: 148512.1

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<221> unsure
<222> 581, 597
<223> a, t, c, g, or other

<400> 171
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<210> 172
<211> 3290
<212> DNA
<213> Homo sapiens

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<210> 173

<211> 679

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2023119CD1

<400> 173

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				20					25					30
Ile	Ala	Phe	Val	Leu	Ala	Phe	Ser	Val	Gly	Ala	Asn	Asp	Val	Ala
				35					40					45
Asn	Ser	Phe	Gly	Thr	Ala	Val	Gly	Ser	Gly	Val	Val	Thr	Leu	Lys
				50					55					60
Gln	Ala	Cys	Ile	Leu	Ala	Ser	Ile	Phe	Glu	Thr	Val	Gly	Ser	Val
				65					70					75
Leu	Leu	Gly	Ala	Lys	Val	Ser	Glu	Thr	Ile	Arg	Lys	Gly	Leu	Ile
				80					85					90
Asp	Val	Glu	Met	Tyr	Asn	Ser	Thr	Gln	Gly	Leu	Leu	Met	Ala	Gly
				95					100					105
Ser	Val	Ser	Ala	Met	Phe	Gly	Ser	Ala	Val	Trp	Gln	Leu	Val	Ala
				110					115					120
Ser	Phe	Leu	Lys	Leu	Pro	Ile	Ser	Gly	Thr	His	Cys	Ile	Val	Gly
				125					130					135
Ala	Thr	Ile	Gly	Phe	Ser	Leu	Val	Ala	Lys	Gly	Gln	Glu	Gly	Val
				140					145					150
Lys	Trp	Ser	Glu	Leu	Ile	Lys	Ile	Val	Met	Ser	Trp	Phe	Val	Ser
				155					160					165
Pro	Leu	Leu	Ser	Gly	Ile	Met	Ser	Gly	Ile	Leu	Phe	Phe	Leu	Val
				170					175					180
Arg	Ala	Phe	Ile	Leu	His	Lys	Ala	Asp	Pro	Val	Pro	Asn	Gly	Leu
				185					190					195
Arg	Ala	Leu	Pro	Val	Phe	Tyr	Ala	Cys	Thr	Val	Gly	Ile	Asn	Leu
				200					205					210
Phe	Ser	Ile	Met	Tyr	Thr	Gly	Ala	Pro	Leu	Leu	Gly	Phe	Asp	Lys
				215					220					225
Leu	Pro	Leu	Trp	Gly	Thr	Ile	Leu	Ile	Ser	Val	Gly	Cys	Ala	Val
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Phe	Cys	Ala	Leu	Ile	Val	Trp	Phe	Phe	Val	Cys	Pro	Arg	Met	Lys
				245					250					255
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Lys	Leu	Ser	Val	Gly	Asp	Ile	Glu	Asn	Lys	His	Pro	Val	Ser	Glu
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Val	Gly	Pro	Ala	Thr	Val	Pro	Leu	Gln	Ala	Val	Val	Glu	Glu	Arg
				305					310					315
Thr	Val	Ser	Phe	Lys	Leu	Gly	Asp	Leu	Glu	Glu	Ala	Pro	Glu	Arg
				320					325					330
Glu	Arg	Leu	Pro	Ser	Val	Asp	Leu	Lys	Glu	Glu	Thr	Ser	Ile	Asp
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Ser	Thr	Val	Asn	Gly	Ala	Val	Gln	Leu	Pro	Asn	Gly	Asn	Leu	Val
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Gln	Phe	Ser	Gln	Ala	Val	Ser	Asn	Gln	Ile	Asn	Ser	Ser	Gly	His
				365					370					375
Tyr	Gln	Tyr	His	Thr	Val	His	Lys	Asp	Ser	Gly	Leu	Tyr	Lys	Glu
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Leu	Leu	His	Lys	Leu	His	Leu	Ala	Lys	Val	Gly	Asp	Cys	Met	Gly
				395					400					405
Asp	Ser	Gly	Asp	Lys	Pro	Leu	Arg	Arg	Asn	Asn	Ser	Tyr	Thr	Ser
				410					415					420
Tyr	Thr	Met	Ala	Ile	Cys	Gly	Met	Pro	Leu	Asp	Ser	Phe	Arg	Ala
				425					430					435
Lys	Glu	Gly	Glu	Gln	Lys	Gly	Glu	Glu	Met	Glu	Lys	Leu	Thr	Trp
				440					445					450
Pro	Asn	Ala	Asp	Ser	Lys	Lys	Arg	Ile	Arg	Met	Asp	Ser	Tyr	Thr
				455					460					465
Ser	Tyr	Cys	Asn	Ala	Val	Ser	Asp	Leu	His	Ser	Ala	Ser	Glu	Ile
				470					475					480
Asp	Met	Ser	Val	Lys	Ala	Glu	Met	Gly	Leu	Gly	Asp	Arg	Lys	Gly

	485		490		495
Ser Asn Gly Ser	Leu Glu Glu Trp Tyr	Asp Gln Asp Lys Pro	Glu		
	500		505		510
Val Ser Leu Leu	Phe Gln Phe Leu Gln	Ile Leu Thr Ala Cys	Phe		
	515		520		525
Gly Ser Phe Ala	His Gly Gly Asn Asp	Val Ser Asn Ala Ile	Gly		
	530		535		540
Pro Leu Val Ala	Leu Tyr Leu Val Tyr	Asp Thr Gly Asp Val	Ser		
	545		550		555
Ser Lys Val Ala	Thr Pro Ile Trp Leu	Leu Leu Tyr Gly Gly	Val		
	560		565		570
Gly Ile Cys Val	Gly Leu Trp Val Trp	Gly Arg Arg Val Ile	Gln		
	575		580		585
Thr Met Gly Lys	Asp Leu Thr Pro Ile	Thr Pro Ser Ser Gly	Phe		
	590		595		600
Ser Ile Glu Leu	Ala Ser Ala Leu Thr	Val Val Ile Ala Ser	Asn		
	605		610		615
Ile Gly Leu Pro	Ile Ser Thr Thr His	Cys Lys Val Gly Ser	Val		
	620		625		630
Val Ser Val Gly	Trp Leu Arg Ser Lys	Lys Ala Val Asp Trp	Arg		
	635		640		645
Leu Phe Arg Asn	Ile Phe Met Ala Trp	Phe Val Thr Val Pro	Ile		
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<210> 174

<211> 1708

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1973832CB1

<400> 174

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1708

<210> 175

<211> 99

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1973832CD1

<400> 175

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			20						25					30
Glu	Leu	Arg	Cys	Gln	Cys	Ile	Lys	Thr	Tyr	Ser	Lys	Pro	Phe	His
			35						40					45
Pro	Lys	Phe	Ile	Lys	Glu	Leu	Arg	Val	Ile	Glu	Ser	Gly	Pro	His
			50						55					60
Cys	Ala	Asn	Thr	Glu	Ile	Ile	Val	Lys	Leu	Ser	Asp	Gly	Arg	Glu
			65						70					75
Leu	Cys	Leu	Asp	Pro	Lys	Glu	Asn	Trp	Val	Gln	Arg	Val	Val	Glu
			80						85					90
Lys	Phe	Leu	Lys	Arg	Ala	Glu	Asn	Ser						
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<210> 176

<211> 3154

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 241888.54

<220>

<221> unsure

<222> 2919, 2922, 3031, 3033, 3043-3044, 3119

<223> a, t, c, g, or other

<400> 176

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<210> 177

<211> 800

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1736965CB1

<400> 177

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<210> 178

<211> 81

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1736965CD1

<400> 178

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Ala Trp Ser Gly Arg	Arg Thr Arg Leu Cys Cys His Arg Val Pro		
35	40	45	
Ser Pro Asn Ser Thr	Asn Leu Lys Gly His His Val Arg Leu Cys		
50	55	60	
Lys Pro Cys Lys Leu	Glu Pro Glu Pro Arg Leu Trp Val Val Pro		
65	70	75	
Gly Ala Leu Pro Gln Val			
80			

<210> 179
 <211> 1738
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 412065.17

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<210> 186

<211> 5048

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 407463.1

<400> 186

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<210> 187
<211> 1273
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 522433CB1

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<210> 188
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35 40 45
Leu His Thr Glu Asp Ser Arg Phe Arg Glu Leu Arg Lys Arg Tyr
50 55 60
Glu Asp Leu Leu Thr Arg Leu Arg Ala Asn Gln Ser Trp Glu Asp
65 70 75
Ser Asn Thr Asp Leu Val Pro Ala Pro Ala Val Arg Ile Leu Thr
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Pro Glu Val Arg Leu Gly Ser Gly Gly His Leu His Leu Arg Ile
95 100 105
Ser Arg Ala Ala Leu Pro Glu Gly Leu Pro Glu Ala Ser Arg Leu

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Gln Ala Pro Ala	Leu His Leu Arg Leu	Ser Pro Pro Pro Ser	Gln		
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Ser Asp Gln Leu	Leu Ala Glu Ser Ser	Ser Ala Arg Pro Gln	Leu		
	170		175		180
Glu Leu His Leu	Arg Pro Gln Ala Ala	Arg Gly Arg Arg Arg	Ala		
	185		190		195
Arg Ala Arg Asn	Gly Asp His Cys Pro	Leu Gly Pro Gly Arg	Cys		
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Cys Arg Leu His	Thr Val Arg Ala Ser	Leu Glu Asp Leu Gly	Trp		
	215		220		225
Ala Asp Trp Val	Leu Ser Pro Arg Glu	Val Gln Val Thr Met	Cys		
	230		235		240
Ile Gly Ala Cys	Pro Ser Gln Phe Arg	Ala Ala Asn Met His	Ala		
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Gln Ile Lys Thr	Ser Leu His Arg Leu	Lys Pro Asp Thr Val	Pro		
	260		265		270
Ala Pro Cys Cys	Val Pro Ala Ser Tyr	Asn Pro Met Val Leu	Ile		
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<210> 189

<211> 1712

<212> DNA

<213> Homo sapiens

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<221> misc_feature

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<211> 624

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<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 480489.2

<400> 190

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<210> 191

<211> 3111

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1737775CB1

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<211> 914

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1737775CD1

<400> 192

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  35          40          45
Asp Glu Thr Leu Ile Gln Gln Ile Lys Asp Met Val Thr Gln Ala
  50          55          60
Ser Leu Tyr Leu Phe Glu Ala Thr Gly Lys Arg Phe Tyr Phe Lys
  65          70          75
Asn Val Ala Ile Leu Ile Pro Glu Thr Trp Lys Thr Lys Ala Asp
  80          85          90
Tyr Val Arg Pro Lys Leu Glu Thr Tyr Lys Asn Ala Asp Val Leu
  95          100         105
Val Ala Glu Ser Thr Pro Pro Gly Asn Asp Glu Pro Tyr Thr Glu
  110         115         120
Gln Met Gly Asn Cys Gly Glu Lys Gly Glu Arg Ile His Leu Thr
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Pro Asp Phe Ile Ala Gly Lys Lys Leu Ala Glu Tyr Gly Pro Gln
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Gly Arg Ala Phe Val His Glu Trp Ala His Leu Arg Trp Gly Val
  155         160         165
Phe Asp Glu Tyr Asn Asn Asp Glu Lys Phe Tyr Leu Ser Asn Gly
  170         175         180
Arg Ile Gln Ala Val Arg Cys Ser Ala Gly Ile Thr Gly Thr Asn
  185         190         195
Val Val Lys Lys Cys Gln Gly Gly Ser Cys Tyr Thr Lys Arg Cys
  200         205         210
Thr Phe Asn Lys Val Thr Gly Leu Tyr Glu Lys Gly Cys Glu Phe
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Gln His Val Asp Ser Ile Val Glu Phe Cys Thr Glu Gln Asn His
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Ser Ala Phe Thr	Val Ile Arg Lys Lys	Tyr Pro Thr Asp Gly	Ser		
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Glu Ile Val Leu	Leu Thr Asp Gly Glu	Asp Asn Thr Ile Ser	Gly		
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Cys Phe Asn Glu	Val Lys Gln Ser Gly	Ala Ile Ile His Thr	Val		
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Ala Leu Gly Pro	Ser Ala Ala Gln Glu	Leu Glu Glu Leu Ser	Lys		
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Pro Gly Ile Ala	Lys Val Gly Thr Trp	Lys Tyr Ser Leu Gln	Ala		
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Thr Ser Lys Phe	Pro Ser Pro Leu Val	Val Tyr Ala Asn Ile	Arg		
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Glu Ile Gln Trp	Asn Pro Pro Arg Pro	Glu Ile Asn Lys Asp	Asp		
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Val Gln His Lys	Gln Val Cys Phe Ser	Arg Thr Ser Ser Gly	Gly		
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Ile Leu Asp Leu	Arg Asp Lys Phe Asn	Glu Ser Leu Gln Val Asn			
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Thr Thr Ala Leu	Ile Pro Lys Glu Ala	Asn Ser Glu Glu Val Phe			
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Leu Phe Lys Pro	Glu Asn Ile Thr Phe	Glu Asn Gly Thr Asp Leu			
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Phe Ile Ala Ile	Gln Ala Val Asp Lys	Val Asp Leu Lys Ser Glu			
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Pro Pro Glu Thr	Pro Ser Pro Asp Glu	Thr Ser Ala Pro Cys Pro			
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Asn Ile His Ile	Asn Ser Thr Ile Pro	Gly Ile His Ile Leu Lys			
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PA-0038 US

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Phe	Leu	Leu	Val	515	Cys	Phe	Trp	Lys	520	Ala	Arg	Lys	Ala	Lys	Lys	525
Cys	Cys	Leu	Phe													
Gly	Lys	Asn	Asp													

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